

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JUNE 18 1955

Pharmaceutical Excellence

in the manufacture of

ANTIBIOTICS

The highest pharmaceutical standards combined with an unrivalled skill in large-scale controlled fermentation—these are the qualities which enable an ever increasing number of pharmacists to rely on DC(B)L for penicillin, streptomycin and vitamin B₁₂.

THE DISTILLERS COMPANY

(Biochemicals) Limited

DEVONSHIRE HOUSE, PICCADILLY, LONDON, W.1

Our Products are distributed by:

ALLEN & HANBURY'S LIMITED BRITISH DRUG HOUSES LIMITED
BURROUGHS WELLCOME & COMPANY EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.



for the
treatment or prophylaxis
of
Labyrinthine Disturbances

The value of "Dramamine" in the control of all forms of motion sickness is well established. More than this, however, it is now recognised that "Dramamine" is most effective in the control of other labyrinthine disturbances, so that it is indicated in the treatment or prophylaxis of any condition of abnormal stimuli of the tissues including end organs (gastro-intestinal tract, eyes) and their neural pathways to the labyrinth. Side-effects of "Dramamine" are so slight that dosage may be continued over long periods if necessary.

SEARLE

Dramamine

Brand of dimenhydrinate

SEARLE

Ethical Pharmaceuticals
since 1888

G.D. SEARLE & CO., LTD.

17, Manchester Street
London, W.1.

Telephone: Welbeck 1306.

Thus conditions in which "Dramamine" has been most effective include vertigo due to hypertension, fenestration procedures and labyrinthitis; Menière's syndrome, irradiation sickness, and in the symptomatic control of nausea and vomiting due to pregnancy, electro-convulsive therapy, narcotisation and certain drugs (antibiotics, etc.). "Dramamine" may be administered orally, or rectally. It is supplied as 50 mg. tablets, in bottles of 12, 36 and 1,000 and in cartons (10 strips of 10 tablets).

Literature on request

Obtainable from your wholesaler

*REGISTERED TRADE MARK

Essential Summer Item

Steady, effortless sales from hard core demand, backed by advertising

An army of die-hard users (mostly in the 45/60 age group) depend absolutely on Simpson's directly the weather turns warm to keep their feet in 'easy' comfortable condition throughout summer. They know there's no substitute — nothing so easy to apply, so quick in action, so certain to bring relief. They *will* have it.

Advertising to 18,000,000

National advertising (this year from May to August) in all important papers, reaching this age group and aggregating 18 million circulation, adds a steady inflow of new users.

This is a *safe* summer item. So order Simpson's NOW and get the whole season's trade—and bonus on the lot. (*See panel below*).

A shilling a jar

Within a few decimals of a penny, you net a shilling on every jar of Foot Ointment handed over your counter — if you buy on best bonus terms.

But see that it's seen. One jar is enough on your counter if it's in the neat little 'crownier' showcard that takes up only $4\frac{1}{2}$ inches and does all the selling for you. It's packed in every bonus delivery.

BONUS plus $7\frac{1}{2}\%$

Bonus is now available, 12 charged as 11 on whatever quantity you like from 1 dozen upwards. But bonus is on one stocking order only — the first placed for direct delivery after the 1st April and before the 31st June. If you buy as part of an 'All-in' delivery with any assortment of other products listed on our order form you get additional discount of from $3\frac{3}{4}\%$ to $7\frac{1}{2}\%$.



Simpson's FOOT OINTMENT

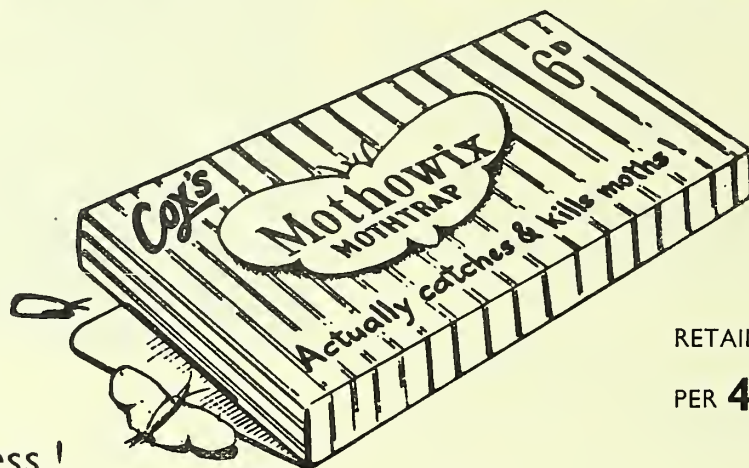
Sole Distributors (U.K. and Overseas):

Walter Crowe Limited, 3/4 Little Russell Street, London, W.C.1

Telephone: Chancery 6101, 7051 2 (Three lines)

Telegrams: Relialines, Westcent, London

"MOTHOWIX" MOTHTRAP



RETAILS AT **6^D**
PER **48/-** GROSS

★ Odourless !

★ Actually catches and kills moths !

order with

Cox's

THE ORIGINAL

D.D.T. FLYCARDS

Cox's 3d.	D.D.T. FLYCARDS (THE ORIGINAL)	...	24/-	PER GROSS
Cox's 3d.	D.D.T. CHIMPS...	...	24/-	" "
Cox's 4d.	D.D.T. PARROTS	...	32/-	" "
Cox's 4d.	D.D.T. ROSE BASKETS	...	32/-	" "
Cox's 6d.	MOTHOWIX MOTHTRAPS	...	48/-	" "

LESS 2½% MONTHLY ACCOUNT

BONUS TERMS—10% ON ORDERS FOR 3 GROSS

THIS OFFER APPLIES TO ORDERS FOR FLYCARDS AND MOTHOWIX
IN ANY ASSORTMENT

JAMES COX & CO., D.D.T. WORKS, STH. HARROW, MIDDLESEX. Telephone: BYRON 4326



Every woman wants

Admiration

by Delavelle

The new perfume with the intriguing difference!

Why different? Because it was chosen by an independent panel of men as the one *they* prefer their wives and woman friends to use. Watch out for the brilliantly original opening press campaign! Women everywhere will be reading about Admiration in 16,945,000 big, eye-catching advertisements in WOMAN

WOMAN'S OWN • WOMAN'S ILLUSTRATED • MODERN WOMAN PICTUREGOER • WOMAN & BEAUTY • VANITY FAIR • EVERYWOMAN Secure YOUR sales by displaying the perfume in its exciting packaging with your free tester. Available also in Cologne, Stick Cologne, Soap, Talcum Powder and Bath Cubes.

DELAVELLE • 38-46 ORSMAN ROAD • N.1

NEW! VITAMIN 'C' FRUIT JUICE DRINKS WITH A *DIFFERENCE!*

HERE ARE THREE new health drinks that are sure to sell—fast. They're packed with Natural Vitamin 'C'—not less than 20 mg. per fluid oz. They taste of real fruit juice—because they're *made* from real fruit juice. And the *difference* is in those juices! Raspberry! Orange! Pineapple! That's why we say they'll *sell* and *sell*. And *this* is why you should stock up—now!



12 BOTTLES FOR THE PRICE OF **11**

THAT'S THE BONUS we're offering to *start* you selling Lockwoods health drinks. Afterwards—you'll see how they sell themselves! But hurry now! This offer closes September 1st. So write for *your* supplies—today!

Lockwoods consumer price is only 3/3 per bottle; normal trade price per dozen is 31/-. BONUS TRADE PRICES: 28/5 (quantities up to 3 doz.); 27/- (quantities of 3 doz. to 11 doz.); 25/8 (quantities of 12 doz. up).

STRIKING ADVERTISEMENTS WILL HELP YOU SELL!

Yes, millions of people will see eye-catching Lockwoods advertisements (including a Daily Express ½-page, in national press and magazines. They'll be looking for Lockwoods—make sure you've plenty in stock. Gay display pieces are sent to you with each order—to catch the eye in your pharmacy too!

STOCK UP NOW WITH

LOCKWOODS

CONCENTRATED

VITAMIN 'C' NATURAL JUICE HEALTH DRINKS

Manufactured by EASTERN COUNTIES PRESERVES (1940) LTD., LONG SUTTON, LINGS

All orders and enquiries to Sole Distributors:—

FASSETT & JOHNSON LIMITED, 86 CLERKENWELL ROAD, LONDON, E.C.1.

INDEX TO ADVERTISERS

Agfa, Ltd.	15	Crowe, Walter, Ltd.	1
Allen, Stafford, & Sons, Ltd.	9	Cuxson, Gerrard & Co., Ltd.	31
Barnett & Foster, Ltd.	16	Daniel, Richard, & Son, Ltd.	13
Beatson, Clark & Co., Ltd.	29	Davenport, J. T., Ltd.	14
Beecham Foods, Ltd. 'Quosh'	19	Delavelle (G.B.), Ltd.	3
Bell, John, Hills & Lucas, Ltd.	37	Disprin	6
Bovril, Ltd.	36	Distillers Co. (Biochemicals), Ltd., The ...	Front Cover
British Drug Houses, Ltd., The	5	Domestos, Ltd.	38
Brown, Neville, & Co., Ltd.	7, 13	Eastern Counties Preserves (1940), Ltd.	4
Burrough, James, Ltd.	Leader Page	'Elasto'	30
Burroughs Wellcome & Co.	24	F.A.I.R. Laboratories, Ltd.	32
Burson Elastic Stockings	16	Ferris & Co., Ltd.	28
Calvert, F. C., & Co., Ltd.	8	Fish Optical Co., Ltd.	30
Carnegies of Welwyn, Ltd.	Cover iii	Fryer & Co. (Nelson), Ltd.	28
Chemist and Druggist Dictionary of Synonyms	30	Fulford, G. T. Co., Ltd. (of Canada)	30
Church & Co. (Fittings), Ltd.	26	Gardiner & Co. (The Scotch House), Ltd.	25
Ciba Laboratories, Ltd.	25	G.B. Equipments, Ltd.	17
Coates & Cooper, Ltd.	32	Glaxo Laboratories, Ltd.	Interleaved Edit., 675
Colby, Ltd.	18		
Cox, Arthur H., & Co., Ltd.	8		
Cox, James, & Co.	2		
Crookes Laboratories, Ltd., The	11		

(continued overleaf)

Vital points about Entacyl, the new versatile anthelmintic

1. Effective against threadworms and roundworms which it eradicates rapidly without harm to the patient.
2. Administration is not associated with nausea or side effects even in very young children.
3. Tablets may be crushed and given in milk or other fluids for convenience of administration.
4. Complete eradication is obtained without an enema.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

TABLETS OF
PIPERAZINE ADIPATE 300 mg.
(BRIT. PAT. APPN. NO. 29123/53)

'ENTACYL'
TRADE MARK

Bottles of	25 tablets	Trade	Retail
" "	100 "	3/-	4/6
" "	500 "	10/-	15/-
" "	500 "	42/-	63/-

INDEX (cont.)

Glover, Thomas, & Son, Ltd. Leader Page
 Glovers (Chemicals), Ltd. 34
 Golden, Ltd. 27

Harley, Thos., Ltd. Leader Page
 Haynor, Ltd. 33
 Hygienic Drinking Straws Co., Ltd. Leader Page

Imperial Chemical (Pharmaceuticals), Ltd. Cover iv
 Ingram, J. G., & Son, Ltd. 37
 International Laboratories, Ltd. Leader Page

Jones, Samuel, & Co., Ltd. 28

Kellys, John (London), Ltd. 36

Lehn & Fink Products, Ltd. 35
 Liddle, Keen & Co., Ltd. Classified Section

Macdonald & Son, Ltd. 18
 Menley & James, Ltd. 22
 Modern Electrical Industries, Ltd. 36
 'Myers of Old Street' Classified Section

National Cash Register Co., Ltd., The 28
 Nurse Sykes Co. Leader Page

Orridge & Co. Classified Section

Pifco, Ltd. 20
 Powley, R., & Sons, Ltd. 10
 Progress Shaving Brush Co., Ltd., The 26

Raymond (Art de Coiffeure), Ltd. 31
 Regna Cash Register Co., The Leader Page
 Rexall Drug Co., Ltd. 14
 Ribbands, C., & Sons Classified Section
 Ries, B. H., & Co., Ltd. 16
 Roche Products, Ltd. Interleaved Edit., 676
 Roussel Laboratories, Ltd. 7

Sandoz Products, Ltd. 12
 Searle, G. D., & Co., Ltd. Cover ii
 Secto, Ltd. 30
 Sumner, R., & Co., Ltd. 18

Tattoo Cosmetics, Ltd. 21
 Thermos (1925), Ltd. 30

Vulcan Fumigators, Ltd. 20

Washington Chemical Co., Ltd., The 26
 Wright, Layman & Umney, Ltd. 23

BLAND ☒

RAPID-ACTING ☒

PLEASANT ☒

Disprin

REGD.

is a highly suitable analgesic
 for the personal use of everyone



DISSOLVED IN WATER, a "Disprin" tablet forms a true solution of calcium aspirin. This solution is substantially neutral. Disprin provides soluble aspirin of high and unvarying quality.

RETAIL PRICES

(incl. P.T.)

50-tablet bottle 3/2 26-tablet bottle 1/11
 8-tablet foil 8½d.


RECKITT & COLMAN LTD., HULL & LONDON (PHARMACEUTICAL DEPT., HULL)

TRADE PRICES

(excl. P.T.)

50-tablet bottle 23/- doz. 26-tablet bottle 13/10 doz.
 8-tablet foil 5/2 doz.

N.H.S. basic price 300 tablets in foil 7/6



Tranquillity during
the Female
Climacteric


PAUSANDRYL

Methyl-Androstanolone 5 mg. Ethinyl-Oestradiol 0.005 mg. ROUSSEL

Combined Hormonal Replacement Therapy
The non-masculinizing androgen ANDROSTALONE
potentiated by a minimal dose of oestrogen

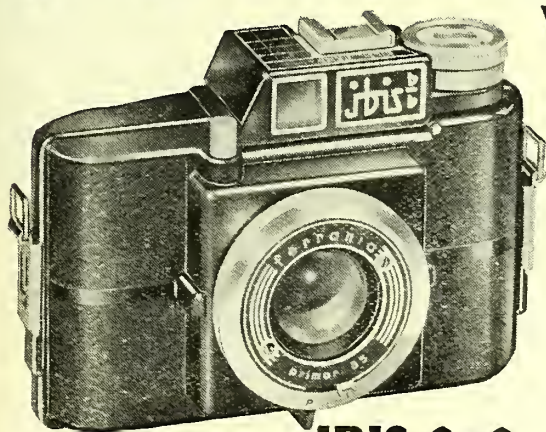
This eliminates oestrogen side effects without causing virilization

Packings: Boxes of 25 and bottles of 100 glossettes



843-847 Harrow Rd.
London N.W.10
LADbroke 3608

ferrania **QUALITY CAMERAS** will please your customers

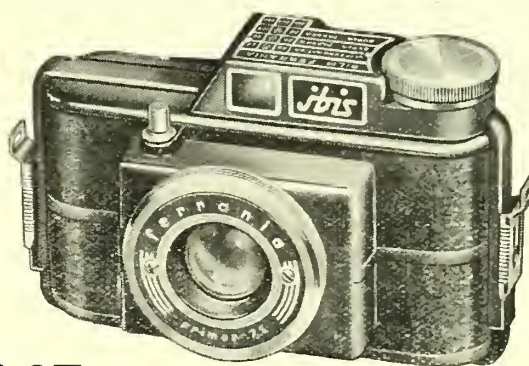


IBIS 6x6

Takes 12 pictures $2\frac{1}{4}$ in. x $2\frac{1}{4}$ in., on f/20 size roll film. Ferrania Primar 8.5 cm. lens, optical eye-level viewfinder, smooth action shutter for instantaneous and time exposures, synchronised for flash photography. Safety device to prevent premature exposures, sturdily manufactured, die-cast body with leather finish.

Ever Ready Carrying Case £1.1.3

£4.18.6



IBIS 27

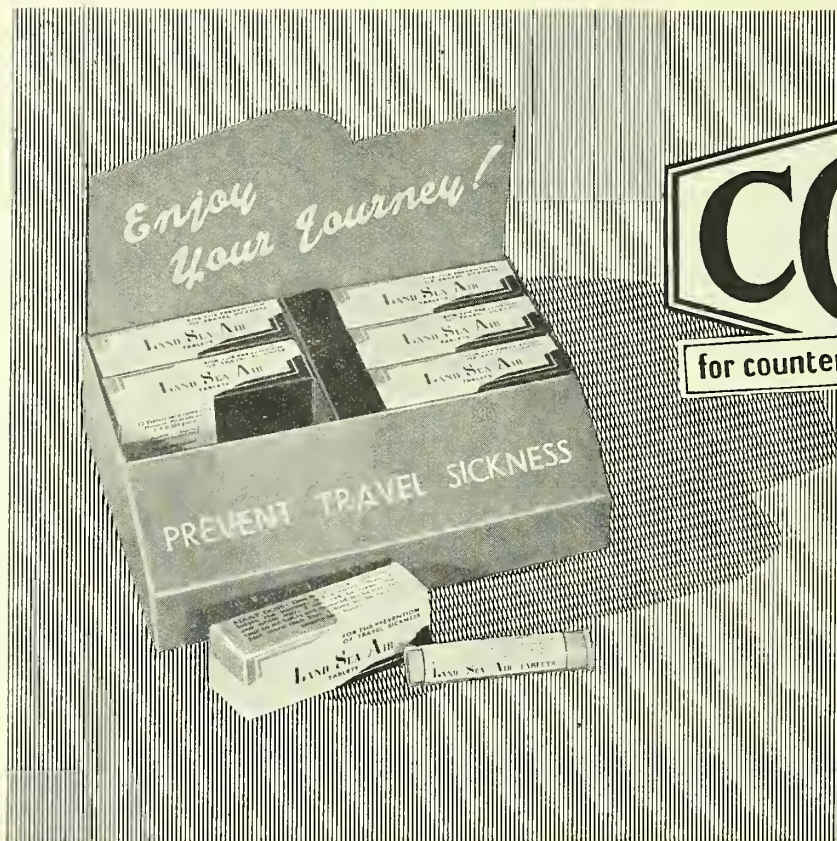
Takes 8 exposures, $2\frac{1}{4}$ in. x $1\frac{1}{8}$ in. on No. 127 film. Ferrania Primar 7.5 cm. lens, optical eye-level viewfinder which gives clear bright image, and smooth action shutter for instantaneous exposures. Patent safety device prevents the shutter being released until the lens is correctly positioned.

Ever Ready Carrying Case 17/11

£3.15.0



NEVILLE BROWN & CO., LTD. 77 NEWMAN STREET, LONDON, W.1
Telephone: LAngham 7161 (10 lines)



COX

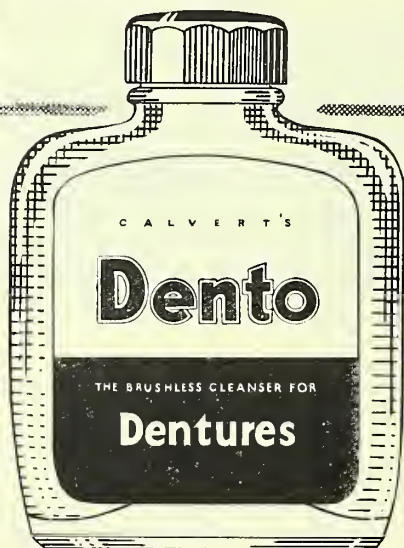
for counter sales that keep custom

Land Sea Air
Travel Sickness Tablets

Available in **10** attractive
packaging styles including
Chemist's 'Own Brand' series.

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since 1839
BRIGHTON

CALVERT'S **Dento** MEDITERRANEAN CRUISE COMPETITION



Result

THE WINNER—

Messrs. L. A. N. Curie Chemists Ltd. of Edgware Rd., London, W.2, has been declared the winning shop in the Dento Mediterranean Cruise Competition. The prize, which was offered to the independent chemist who purchased the largest quantity of Dento between February 1st and April 30th this year, consists of a fortnight's Mediterranean cruise for two. All travelling expenses will be met, and, in addition, a salary of a locum-tenens will be paid.

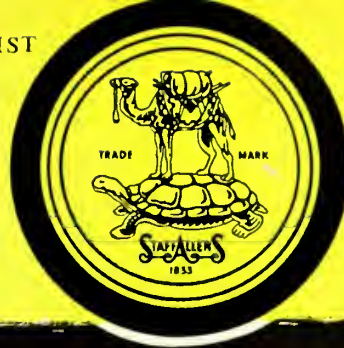
F. C. CALVERT & COMPANY LTD · MANCHESTER 12

June 18, 1955

THE CHEMIST AND DRUGGIST

9

Essential Oils



Still at Long Melford

English Distilled & Imported
EUCALYPTUS · SANDALWOOD · LAVENDER · LEMON
NUTMEG · CLOVE · CARDAMOM · ORRIS
PEPPERMINT · ANISEED · CINNAMON · GINGER

Send for our new Catalogue

Stafford Allen & Sons

**NO SWORD OF DAMOCLES
NEED HANG OVER YOU!**



Remove for ever the threat of what one unsterile bottle might do for you! Powleys "Spartan" Hydro Bottle-Washing and Drying Machine delivers sterile bone-dry bottles at the rate of 1800 bottles per hour and upwards.

Engineer-built throughout, requires the minimum of installation: "Spartan" is designed especially for Chemists' bottles.

"Spartan"

HYDRO BOTTLE WASHING AND DRYING MACHINE

Any size or type of bottle can be handled by the "Spartan" . . . with varying outputs. Easy and economical to run, occupying minimum floor-space, the "Spartan" could probably solve many of your problems.

ENQUIRY FORM

Please send complete specification.

NAME

ADDRESS

CAPACITY

DEPT. 6/C

R. POWLEY & SONS LTD., ST. MARKS ROAD, SUNDERLAND

Tel.: SUNDERLAND 4846/7

Grams: "POWLEY, SUNDERLAND"

An entirely *NEW* product

BY THE CROOKES LABORATORIES LIMITED

CROOKES Personal Blend LIQUID CREAM FOUNDATION

that the user blends herself

PERSONAL BLEND, a revolutionary idea in the cosmetic world, is a liquid cream foundation that the user blends herself to her exact requirements. There is a set of three bottles—one containing a light shade of cream, the second a dark shade. To match her exact colouring, the user blends the light and dark shades in the required proportions in the third bottle.



NOW you can blend your **EXACT** shade of liquid cream foundation!

declares CATHERINE BOYLE

"I have used a lot of cosmetics in my life, but I have never found one that gives me the right shade of foundation for my own complexion. I have tried many different shades, but I have never found one that gives me the right shade of foundation for my own complexion. I have tried many different shades, but I have never found one that gives me the right shade of foundation for my own complexion."

CROOKES Personal Blend
the chemist's secret
LIQUID CREAM FOUNDATION



During the introductory period, May, June and July, PERSONAL BLEND will be invoiced on a Sale or Return Basis.

SOLD ONLY THROUGH CHEMISTS

Full details
have already been mailed to you
Post off your order now

This half-page advertisement will be appearing in the DAILY EXPRESS on 24th June and will be seen by over 5,000,000 women. Extensive advertising is also being carried out in the DAILY MIRROR and the leading women's magazines.

The Set retail price—13/6d. (9/- plus 4/6 P.T.). Single carton retail price 6/9d. (4/6 plus 2/3 P.T.) Retail discount 33 1/4%

Catherine Boyle, of T.V. fame, gives her unqualified support to this exciting new product and appears in all advertisements and display material.

THE CROOKES LABORATORIES LTD., PARK ROYAL, LONDON, W.W.16

C

All Iron Deficiencies

***readily yield to treatment
with***

FERRONICUM

Tablets of Ferrous Gluconate B.P.C. (0.3 gramme)

Ferrous Gluconate is the bivalent iron salt which is best utilised and tolerated by the body, rendering possible intensive and protracted ORAL treatment in the most fastidious patients.

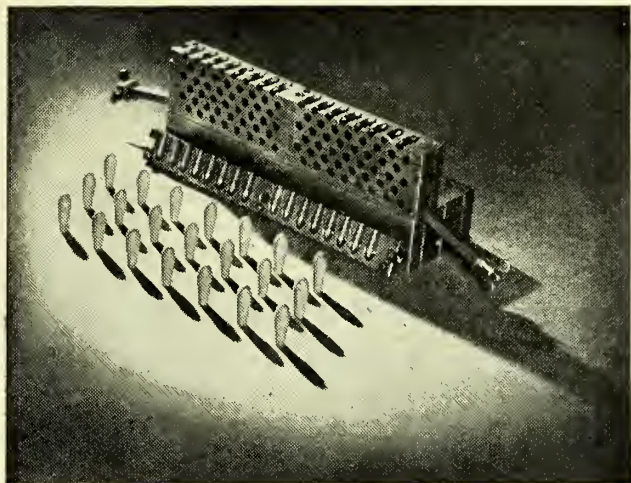
*Information and clinical samples
available upon request*

Bottles of:
50 tablets
100 tablets
1,000 tablets } dispensing packs



SANDOZ PRODUCTS LIMITED
134, Wigmore Street, London, W.1

★ **SUPPOSITORIES**



MANUFACTURED BY
SKILLED LABOUR
from
HIGHEST QUALITY
MATERIALS

YOU CAN ORDER WITH
CONFIDENCE FROM

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

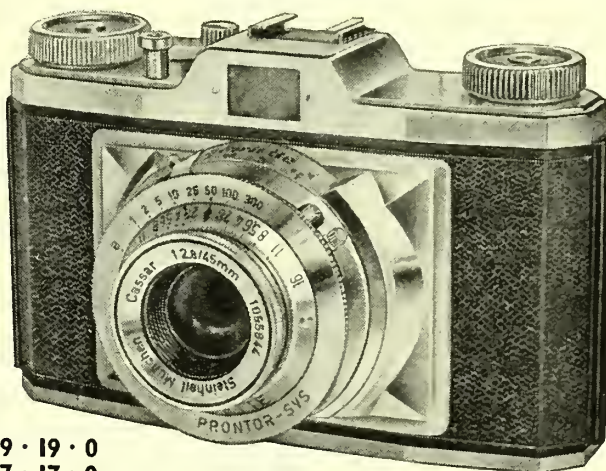
MANSFIELD ROAD, DERBY — Tel: 48266 (4 lines) AND AT ASHTON - UNDER - LYNE — Tel: 2816 (3 lines)

Amazing Value!

F/2.8 Steinheil-Cassar lens
Prontor S.V.S. Shutter, Lever Wind
for £19 · 19 · 0

Manufactured by the makers of the famous Paxette, the Gloriette takes 35mm. film and is fitted with Steinheil - Cassar f/2.8 lens, lever-wind, delayed action device, flash synchronised S.V.S. shutter, body release, etc.

Display stands and leaflets available to stockists.



GLORIETTE

with 8-speed Prontor S.V.S. shutter £19 · 19 · 0
with 4-speed Pronto shutter £17 · 17 · 0

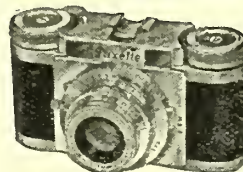


GLORIA 2½" × 2½"
Rangefinder Camera
Pronto 4-speed £18 · 18 · 0
Prontor S.V.S. £21 · 17 · 6



PAXINA 29 2½" × 2½"
Pronto 4-speed £14 · 14 · 0
Prontor S.V.S. £17 · 17 · 0

PAXETTE I 35 mm. £21 · 17 · 6
PAXETTE Im 35 mm. £24 · 15 · 0



NEVILLE BROWN & CO., LTD.

77 NEWMAN STREET, LONDON, W.1 Tel.: LAngham 7161 (10 lines)



A NAME YOUR CUSTOMERS CAN TRUST!

Let's face it, a good name is probably the most potent aid to pharmaceutical sales there is. That is why Rexall products are backed by big national advertising. But this alone could not possibly account for such rapidly rising sales.

Probably the most powerful reason for the success of Rexall is just simple word of mouth recommendation from ordinary men-in-the-street. Remember, Rexall is a name that your customers know and trust.

BISMA-REX

A quick-acting, pleasant-tasting antacid with a long-lasting effect. Obtainable in Powder, Tablet or Gel form.

EVELO

A safe and effective isotonic eye lotion for tired or over-strained eyes — with free cushion eye bath.

ATHLETE'S FOOT POWDER AND OINTMENT

Both contain Lauryl Pyridinium Chloride, found to be extremely effective in treating infections of fungus origin. The powder form is ideal for dusting on feet and socks.

SEDETS TABLETS

Compound Salicylamide tablets for the relief of headache, neuralgia and rheumatic pain; and for influenza and period pains. **They contain no aspirin.**



YOU CAN DEPEND ON ANY PRODUCT BEARING THE NAME 

REXALL DRUG CO. LTD., LOUGHBOROUGH, LEICESTERSHIRE

Dr. J. Collis Browne's Chlorodyne

and

The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

P.A.T.A.

Sole Proprietors:

J. T. DAVENPORT LTD.

UNION STREET - LONDON, S.E.1

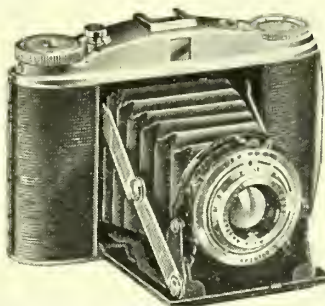
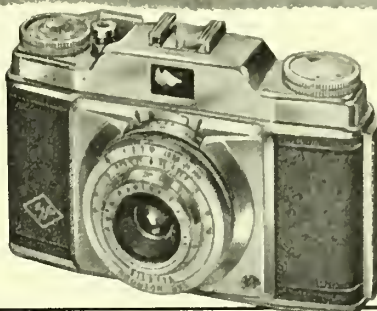


Cameras and Films

*for
superb
results*

AGFA SILETTE

35mm miniature fitted with Agfa Apotar f3.5, 45mm coated, colour corrected lens. Positive-action lever wind. Delayed action. Seen-at-a-glance setting controls. 8-speed model with XM synchronised Prontor SVS shutter £22.10.2. 4-speed model with synchronised Pronto shutter £18.8.4. Agfa ever-ready leather case £3.2.2.



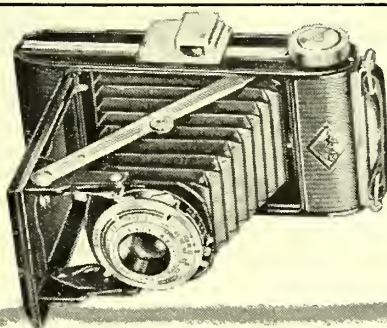
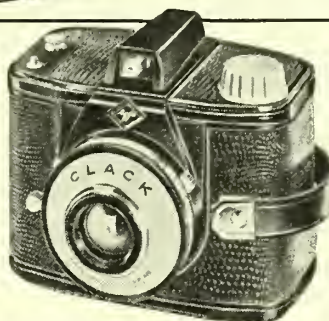
AGFA ISOLETTE RANGE

Here featured is the Isolette II fitted with Agfa Apotar f4.5 85mm coated, colour corrected lens. 8-speed Prontor S Shutter. Synchronised for flash. Delayed action. Double exposure prevention device. Five models available from £12.10.4 to £24.19.1.

Ever-ready leather case £2.8.6. Imitation leather case £1.12.7.

AGFA CLACK

2 1/2" x 3 1/2" snapshot camera. Two apertures. Built-in close-up lens. Synchronised for flash. Takes 8 exposures on 120-size film. £3.16.2. Modern ever-ready case 21.10d. Special yellow filter 15.7d.



AGFA BILLY I

2 1/2" x 3 1/2" folding camera fitted with Agfa Agnar f6.3, 105mm coated, colour corrected lens. 3-speed synchronised Vario shutter. Optical viewfinder. Takes 8 exposures on 120-size films. £10.14.6.

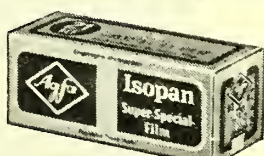
Ever-ready case £1.17.10.



AGFA ISOPAN F

... fine grain panchromatic black and white film.

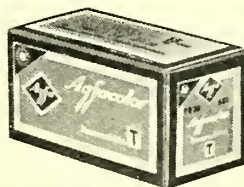
A really fine grain film giving considerable latitude. Available in 127, 120 and 620 roll film sizes and as 35mm.



AGFA ISOPAN 155

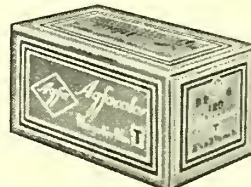
... fast panchromatic black and white film.

A high speed film giving outstanding tone gradation coupled with exceptional latitude. Available in 127, 120 and 620 roll film sizes and as 35mm film.



Agfacolor Reversal Film

For sparkling colour transparencies. Faster emulsion speed (16 Weston) is a fine selling point. Agfa Laboratories processing, included in retail prices, ensures optimum results. Customers' exposed Agfacolor Reversal film should be sent by them, direct to the Agfa Laboratories, Wimbledon. In roll film sizes 127, 620, 120 and 35mm and in 20 and 36 exposures cassettes of 35mm.



Agfacolor Negative Film

For superb colour rich prints and enlargements. Customers' exposed Agfacolor Negative film should be sent to one of Agfa's four authorised processing laboratories. Genuine Agfacolor prints and enlargements bear imprint Agfa on reverse side. In roll film sizes 127, 620, 120 and 35mm.

Form E.C.10

Mr. Mrs. Miss } *Rawlinson*
(name and initials of patient)

Age, if under fourteen years *The Cedars*

Address *Horley Crescent*

Chemist's Stamp

For use only by Pricing Office

R Elastic Stockings 2-way stretch

In a case like this.... dispense BURSON

Burson Stockings, made exclusively on special knitting looms, are the product of ten years' intensive research into the making of surgical stockings.

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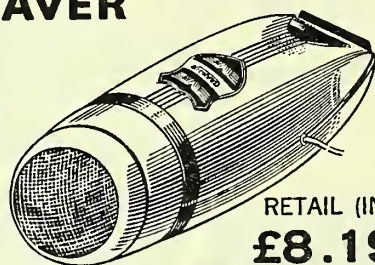
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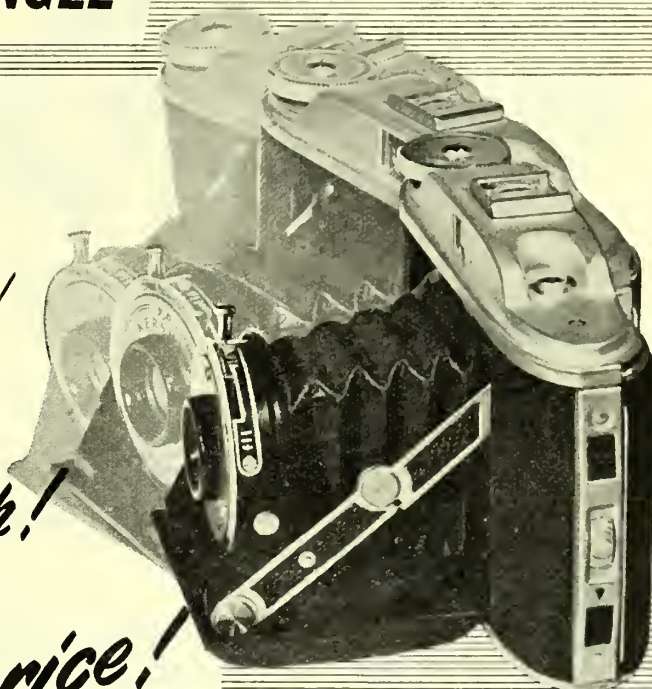
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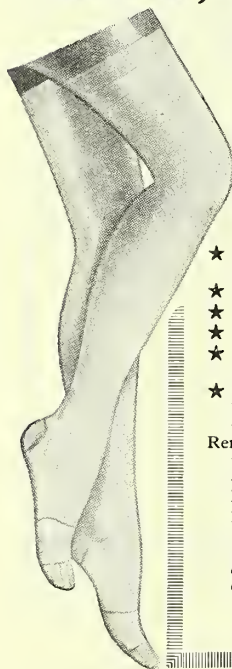
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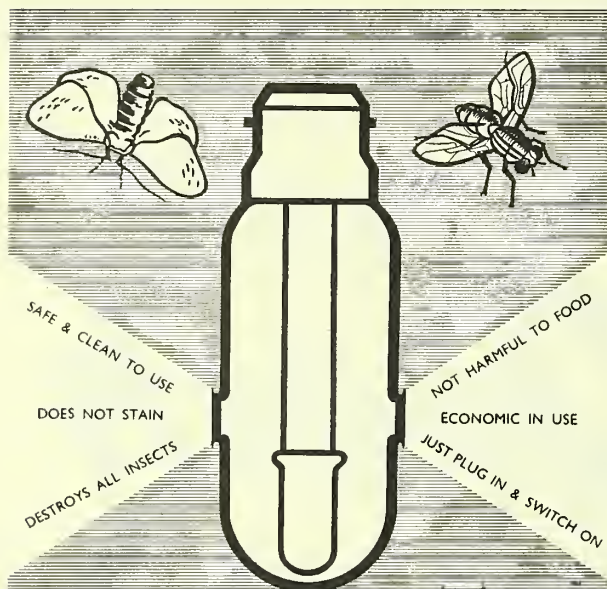
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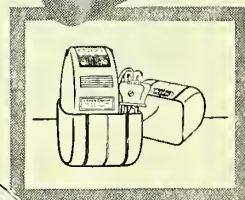
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and packed in
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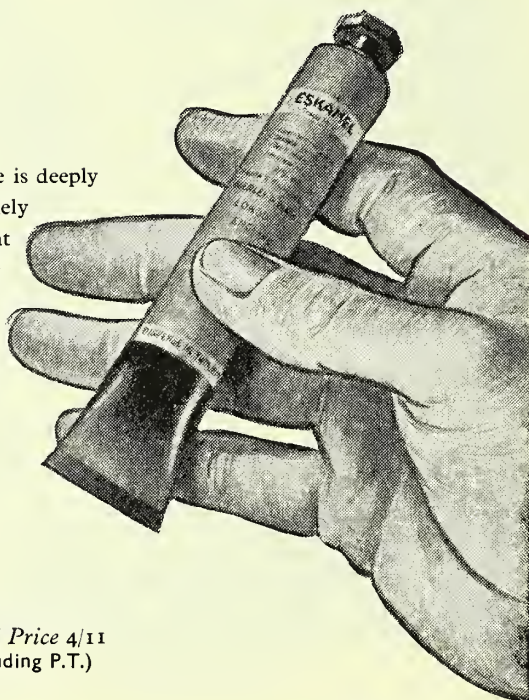
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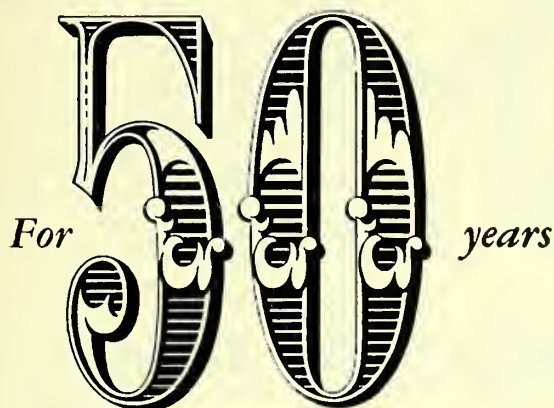
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Research in raw materials and
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COAL TAR SOAP

Ideal for Toilet, Bath and Nursery



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
 all sections of the drug, pharmaceutical and
 fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
 and the Pharmaceutical Society of Northern Ireland*

Volume 163

June 18, 1955

No. 3930

CONTENTS

Agricultural Chemists' Notes	...	672
Any Business Questions?	...	673
Birthday Honours	...	661
British Plastics on Show	...	664
Cellulose Acetate Plastics	...	665
Efficiency in Business	...	663
Leading Articles:—		
The Old Folks Adrift	...	667
A Ban that should be Lifted	...	667
Tidier Taxation?	...	667
Medical Research Units on View	...	658
Onward from Galen...	...	668
Pharmaceutical Society of Great Britain:—		
Council Meeting	...	669
Annual Meeting	...	670
Protest Against Heroin Ban	...	665
Selling Perfume—4	...	674
Topical Reflections	...	657
British Fine Chemicals	668	News in Brief ... 657
Business Changes	... 661	P.A.T.A. ... 663
Coming Events	... 680	Personalities ... 662
Deaths	... 662	Price Changes ... 680
Information Wanted	... 666	Print and Publicity ... 679
In Parliament	... 660	Sport ... 657
Irish News	... 656	Trade Marks ... 680
Local Officers	... 680	Trade Notes ... 663
Marriages	... 662	Trade Report ... 677
New Companies	... 661	Wills ... 680
New Products	... 663	World Trade ... 679

INDEX TO ADVERTISERS, Pp. 5 & 6.

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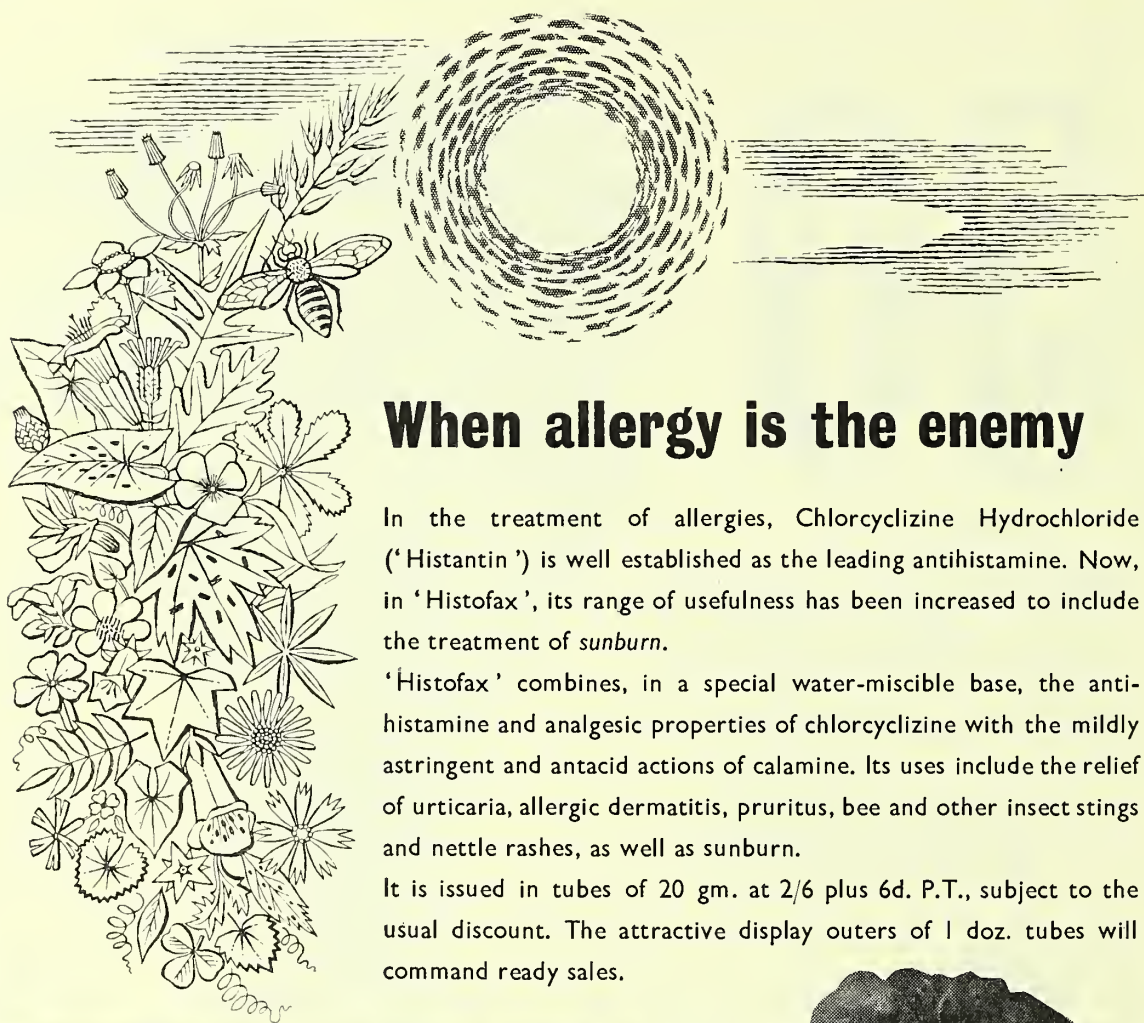
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'Histofax' combines, in a special water-miscible base, the antihistamine and analgesic properties of chlorcyclizine with the mildly astringent and antacid actions of calamine. Its uses include the relief of urticaria, allergic dermatitis, pruritus, bee and other insect stings and nettle rashes, as well as sunburn.

It is issued in tubes of 20 gm. at 2/6 plus 6d. P.T., subject to the usual discount. The attractive display outers of 1 doz. tubes will command ready sales.



BURROUGHS WELLCOME & CO.

(The Wellcome Foundation Ltd.)

LONDON



The CHEMIST AND DRUGGIST

Volume 163

JUNE 18, 1955

No. 3930

Dental Health Drive

ADVICE TO MOTHERS ON MOUTH HYGIENE

A NEW drive for better dental health among mothers and children is being initiated by the Ministry of Health in agreement with the Ministry of Education.

Local health authorities have received a memorandum indicating how dental care may be developed and improved. The Ministry has also provided a series of "talking points" for use either at maternity and child welfare centres or during visits to the homes of mothers. On the subject of mouth hygiene, the notes say that the importance of rinsing the mouth well with water immediately after a meal cannot be over-emphasised; the standby of most people is the tooth or mouth brush. Brushing should be done by a sweeping movement from the gums to the tips of the teeth, not forgetting the flat chewing surfaces. The tufts, whether nylon or natural bristles, should be soft. A child should be given a small-headed brush and should be taught to use it. Until then his teeth should be cleaned for him after each meal. Each member of the family should have his own brush, which should be renewed at least every six months. It should be hung up to dry after use. In day nurseries or nursery schools each child should be told to bring a small mug or plastic cup in which to keep the tooth-brush after use. The real value of most adjuncts such as tooth-pastes and mouth-washes is the precipitated chalk and finely divided soap which help the brush to do its job. A good, cheap tooth-powder can be made at home by mixing one part of kitchen salt to two parts of bicarbonate of soda. The use of penicillin tooth-pastes should be discouraged as strongly as possible, since they do not reduce or prevent decay but there is a serious risk that they may sensitise the patient against any future beneficial use of penicillin. Fluoride tooth-pastes are not of proved value, and may in certain circumstances have harmful effects, and parents should be advised against their use. The notes emphasise that one of the main causes of the increase in dental decay is the greatly increased consumption of sweets.

Local health authorities in England and Wales are being offered free of charge by the Ministry of Health an illustrated single-page leaflet of simple dental advice which can be distributed at Maternity and Child Welfare Centres and by Health Visitors, and a reprint of a twelve-panel picture set,

"Take Care of Your Teeth," suitable for display purposes. Among the advice given in the illustrated leaflet is:—Teach your children to clean their teeth every morning and always last thing at night; make sure that your children visit the dentist regularly; and give your children the right foods to nourish, exercise and clean the teeth.

Tax Recommendations

REPORT BY ROYAL COMMISSION

AMONG the principal recommendations in the Final Report of the Royal Commission on Taxation are:—

A flat rate of profits tax.

Assessment on a current year basis.

Expenses of a business and an individual to be re-defined on a more equal basis.

Special treatment for companies trading overseas.

Rejection of a capital gains tax.

An option to adopt the last-in-first-out method of stock valuation.

The report is signed by Lord Radcliffe (Commission chairman) and a majority of the members, including Sir Geoffrey Heyworth (chairman of Unilever, Ltd.). Other recommendations of the Commission are that a

director should be entitled to the same exemption as an employee in respect of living accommodation provided on business premises and that capital allowances should be given for commercial buildings. There is a minority report calling for the introduction of a capital gains tax and proposing separate taxation for companies by a corporation profits tax. The report (Cmd. 9474) is published by H.M. Stationery Office, price 12s. 6d.

Advertising Material

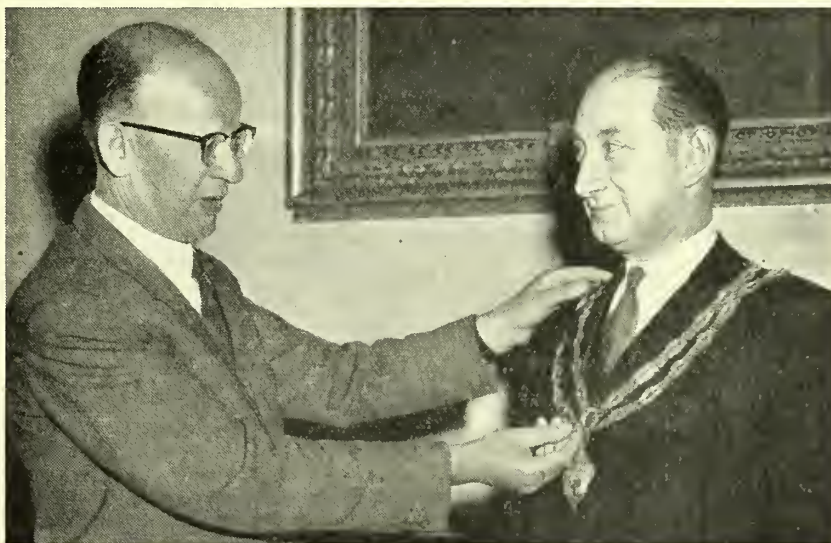
DUTY-FREE LIMIT RAISED

THE Treasury has made the Import Duties (Exemptions) (No. 5) Order, 1955, regarding printed trade advertising material, which is already exempt from duty if imported by post either in single copies or in a packet not exceeding 8 oz. in gross weight. The Order, effective July 1, increases the weight limit for such exempt importations to 2½ lb., and also extends the exemption, with similar limitations, to importations through non-postal channels.

Statutory Committee

NAME TO REMAIN ON REGISTER

AT a meeting held in London on June 8, the Statutory Committee of the Pharmaceutical Society decided not to remove from the Register the name of a pharmacist who had been found guilty of stealing 5s. from his employers. The inquiry, which had been adjourned from June 2, 1954 (see C. & D., July 10, 1954, p. 28), was closed. The pharmacist had submitted testimonials from



PASSING ON THE BADGE: Mr. E. A. Brocklehurst (outgoing president of the Pharmaceutical Society) places the presidential chain of office around the neck of his successor, Mr. H. Steinman.

his present employer and from his sister. The pharmacist also gave evidence that he had, in the interim, paid visits to a psychiatrist. He (the pharmacist) believed that his employer was completely satisfied with the accuracy of his work, his honesty and his sobriety. Giving the Committee's decision, THE CHAIRMAN said that in the case of a person with the pharmacist's record it was essential that the utmost care should be taken throughout the future. He hoped that the good reports that were before the Committee were an indication that the pharmacist's future conduct was going to be such that he could be regarded as a person fully suitable to be on the Register.

London Docks Congestion

CHAMBER OF COMMERCE INQUIRY

WITH a view to expediting the movement of import and export cargoes through the Port of London, the London Chamber of Commerce recently appointed a subcommittee to inquire into the working of the London Docks. The Chamber advise that the subcommittee has already made considerable progress and expects to submit a report very shortly. The council of the Chamber has adopted a report on the London road traffic problem which had been prepared by its transportation committee. Under the heading "London Docks and Wharves," the report stated that partly loaded vehicles were one of the causes of congestion at the Docks and proposed that a special road haulage organisation should be set up to convey in full lorry loads small parcels consigned to or arriving at the docks.

Royal Society

BURSARIES SCHEME AWARDS

RECIPIENTS of awards recently announced under the Royal Society and Nuffield Foundation Commonwealth Bursaries scheme include:—Professor N. P. Badenhuizen (professor of botany, University of Witwatersrand), to enable him to study radioactive isotope application to problems of starch granule growth at the Postgraduate Medical School, London (September to November); Dr. M. Davies (senior lecturer in chemistry, University College of Wales, Aberystwyth), to enable him to visit Sydney from January to September 1956 to work in the field of molecular structure, infra-red spectroscopy and dielectric absorption; and Professor M. Shariff (professor of zoology, University of the Punjab, Lahore), to enable him to study ecological and insecticidal techniques practised at the London School of Hygiene and Tropical Medicine (from July to September).

Expensive Drugs

ADDITIONS TO DOCTORS' LIST

ADDITIONS have been made by the Minister of Health to the list of specially expensive drugs, reagents and appliances for the supply of which doctors receive payment over and above their capitation fees. They are: Chlorpromazine hydrochloride; preparations of rauwolfia species or alkaloids

thereof, whether or not containing alkaloids of veratrum species (but not preparations containing additional drugs); and tetracycline preparations. The entry "phenytoin sodium capsules and tablets" has also been amended to include preparations containing phenobarbitone. The amendments have effect from July 1.

European Conference

STATISTICAL QUALITY CONTROL

A EUROPEAN conference on statistical quality control, sponsored by the European Productivity Agency of the Organisation for European Economic Co-operation, is being held in Paris, July 11–13. Lectures are being given on such subjects as the use of statistical quality control in management, training and experimentation and its technical applications in industry, and texts will be sent to the participants prior to the conference. Further details on the conference and the complete programme may be obtained from national productivity centres or direct from the European Productivity Agency (Project 318), 3 rue André Pascal, Paris, 16e.

Insurance Contributions

SMALL INCOME EXEMPTION CHANGES?

THAT non-employed and self-employed persons should be granted exception from liability for national insurance contributions if their income does not exceed £156 a year (the present limit is £104) is one of the recommendations by the National Insurance Advisory Committee in a report to the Minister of Pensions and National Insurance (H.M. Stationery Office, price fourpence) published recently. The Committee also recommends that employers should bear a larger share of the contribution payable for an employee where the weekly rate of remuneration is 60s. or less.

Dangerous Drugs

AUTHORITY RESTORED TO A DOCTOR

THE Home Secretary has restored to Mr. Brendan O'Carroll, L.A.H. (Dublin), from June 11, authority to be in possession of, to supply, or to give prescriptions for Dangerous Drugs. It was withdrawn from him in 1947.

IRISH NEWS

Ulster Chemists

MEETING OF ASSOCIATION EXECUTIVE

AT the June meeting of the Executive Committee of the Ulster Chemists' Association held in Belfast on June 7, Mr. W. H. BOYD (president), who was in the chair, referred with regret to the illness of Mr. J. C. Acheson, and a resolution of sympathy with Mr. Acheson and good wishes for his quick recovery was passed. Mr. Boyd congratulated Mr. J. Caldwell upon the recent bowling tournament, and reported that the proceeds of £15 had been passed to the Northern Ireland Chemists' Benevolent Fund. The following were elected to membership:—Mrs. L. J. Hughes, 12 Belmore Street, Enniskillen; Messrs. M. J. McDermott, 57 Strand Road, Londonderry (succe-

ssor to Mr. H. Sweeney); M. J. McEvoy, 53 Mill Street, Newry (successor to Mr. B. O'Reilly); and L. P. O'Hare, 5 John Mitchell Place, Newry. Consideration was given to replies received from certain manufacturers pointing out that under the National Health Service, when reductions took place before the eighth of any month there was a lapse of seven weeks before the reduced prices were put into operation, thus allowing time for stocks purchased at the higher prices to be cleared and obviating the necessity of passing credit for rebates. Discussion followed concerning the possibility of the Association organising a clearing station for surplus stocks. THE PRESIDENT stated that a subcommittee had already gone into that matter, but would consider it again. A member stated that chemists were perturbed at the extending, by another firm of manufacturers, of direct distribution to grocers and other non-chemist traders. Members of the Ulster Chemists' Association had consistently supported that firm's preparations. The secretary was instructed to ask the firm for a statement of their policy.

Chemists and Druggists

ANNUAL OUTING OF SOCIETY

THE Chemists' and Druggists' Society of Northern Ireland held their annual outing on June 1 to Donaghadee and Copeland Lighthouse Island. THE PRESIDENT (Mr. Fred Storey, C.B.E.) welcomed the guests and said that the Society had always emphasised the social side of its activities. He was privileged during 1955 to be chairman of the Northern Ireland Chemists Federation Committee, an organisation in which he took a very keen interest, and he recommended the members to give it 100 per cent. support. MR. JAMES IRWIN, representing the Pharmaceutical Society of Northern Ireland, spoke of the excellent work which Mr. Storey had accomplished on behalf of members of the Chemists' and Druggists' Society during the many years he had been its president.

Drug Association

SPECIAL MEETING CALLED

A SPECIAL meeting of the Irish Drug Association is being held at Jury's Hotel, Dublin, at 8 p.m. on June 20. Its purpose is to alter rule 20 of the articles of the Association, which governs the method of election of members to the Committee. Five sections are proposed to the rule; they govern proxies, the issue of ballot papers, method of voting, names of proposer and seconder of a candidate, and the appointment of scrutineers.

No Drug Shortage

MINISTER'S ASSURANCE

MR. P. O'DONNELL (Minister for Local Government) told Mrs. Celia Lynch in the Dail recently that no complaints had been received in his Department about a shortage of essential drugs and medicines in Dublin city dispensaries. The official contractor for the supply of drugs and medicines to local authorities for the current year was Antigen, Ltd., Roscrea.

NEWS IN BRIEF

THE Minister of Agriculture, Fisheries and Food has appointed Mr. A. Propper (an assistant secretary of the Ministry) as a member of the Food Standards Committee in place of Mr. N. R. C. Dockeray.

THE twelfth list of amendments to Appendix A of the 1951 Report of the Departmental Committee on the Carriage of Dangerous Goods and Explosives in Ships is now obtainable from H.M. Stationery Office, price sixpence.

THE Ovaltine Jersey herd won five awards at the Bath and West Show held in Launceston recently, making a total of sixteen awards in the first two shows in which the herd has competed this season.

SPORT

GOLF. — IRISH CHEMISTS' GOLFING SOCIETY, annual three-day outing at Rosslare, co. Wexford, recently. There was a record attendance of members from Dublin and many parts of the Republic. On the Sunday before the three-day event eighteen-hole strokes and eighteen-hole bogey competitions were played for prizes given by Imperial Chemical Industries, Ltd. **Strokes Competition Results:** 1, A. A. Cullinane (17), 68; 2, D. Arnold (14), 70; 3, R. A. Tierney (17), 72. **Bogey Competition:** 1, J. Smyth (13), 1 down; 2, M. Cussen (9), 2 down; 3, C. Clancy (20), 2 down. Results of the three-day competitions were: **MONDAY: Eighteen-hole Strokes:** 1, E. J. Kenny (15), 72; 2, J. A. Hurson (12), 77; 3, J. J. Howard (16), 78. **Eighteen-hole Bogey:** 1, M. Cussen (8), 1 down; R. A. Tierney (16), 2 down; P. J. Hickey (13), 4 down. **TUESDAY: Four-ball V Bogey (Eighteen Holes):** 1, E. J. Kenny (13) and J. P. Holland (16), 5 up; J. Gilmartin (12) and F. Reen (20), 3 up. **Bogey Singles:** T. J. Lynch (6), 1 down; M. Moloney (13), 2 down. **WEDNESDAY: Captain's Prize:** 1, Eric W. Massey (16), 70; 2, J. A. Hurson (11), 71; 3, D. P. McHugh (8), 72; 3, A. D. Davidson (16), 72. **Class I, P. G. Garahy (10), 73. Class II, F. J. McKenna (13), 73. Class III, C. Clancy (19), 74. Bogey Competition (Eighteen Holes):** J. Gilmartin (12), all square; 2, D. N. Mulvey (12), all square; 3, M. Cussen (7), 1 down. **Foursonies:** J. C. Flood and J. B. Kissane (94), 35½; P. J. Fullam and A. Walsh (62), 36½; M. G. Murphy and J. T. Foley (43), 38½. **Hole-in-One:** J. A. Hurson at the fourteenth (165 yds.). At a dinner presided over by P. Fullam (captain) a vote of thanks to the donors of prizes was proposed by E. J. Kenny and replied to by A. C. Martin. Thanks to the Rosslare golf club for the use of their course was moved by D. Mulvey, seconded by T. J. Lynch and replied to by Dr. Sinnott. J. Holland proposed the toast of "The Captain," congratulating Mr. Fullam on the success of the outing.



ON THE COURSE: Messrs. P. J. Hickey, Thurles, P. Fullam (captain) and John P. Holland.

TOPICAL REFLECTIONS

By Xrayser

Palatable and Appetising

You do well to draw attention to the article on candy medication on p. 643. Though the pharmaceutical industry in this country has taken steps to make medicine palatable and attractive to children, it has not gone to the absurd lengths described. We have been familiar for years with the chocolate and chewing-gum type of laxative, and I think I am correct in stating that the latter reached us from America. I clearly recall the indiscriminate distribution of samples in the street to children coming home from school—a form of largesse that brought retribution in its train, for the consumers at least. But the possibility of a growth of the so-called candy medication does not depend on the British manufacturer following the example of the American. The method is reaching this country through the establishment of American factories in Britain, and I have already seen examples of such products. We may find it necessary to formulate a policy soon, if we are to avoid the dangers revealed in the report.

Inconceivable Profits

The weekly paragraph in the series "A Pharmacist's Anthology" is always of great interest, and must frequently send your readers to the work from which the quotation is taken. The week's choice (p. 648), referring to the apothecary who made the enormous profits of 500 per cent. should appeal, one feels, to the Select Committee on Public Expenditure, which last year expressed horror at the profits accruing from the dispensing of chloroform water. Campbell was not alone in his denunciation of the character of the apothecary. The family herbals held the latter in like regard, and in one we read that juices, infusions and decoctions "would not answer the purpose of the apothecary, for his profits would be small upon them." The quotation is from a work of the prolific Sir John Hill, who attached the title to his name on being awarded a Swedish honour late in life. The very name apothecary was anathema to Hill, who, in disclosing the formula for a pearl cordial, wrote: "The apothecaries will not be pleased with this disclosing the mysteries of their profession, but the public good is of more consequence than their pleasure." After his death in 1775, his "Honourable Relict and Executrix" continued to sell his pectoral balsam. In so doing she took the precaution of signing her name in red ink on every bottle so as to "authenticate the true balsam and check the daring frauds of unprincipled empirics."

Idle Thoughts

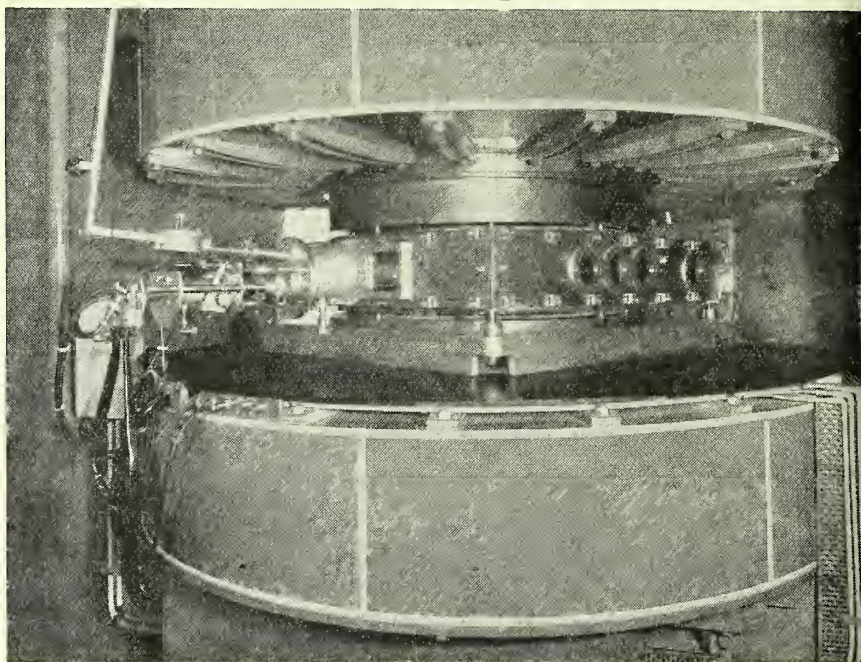
Though I write from memory, I think it was Jerome who said that he liked work so much he could lie and look at it all day. I was reminded of the remark by the report of the conference of the Scientific Film Association (p. 640) which devoted a session to the subject of human attitudes to work. The principal theme of the meeting appears to have been the improvement of human relations, not only between employer and employed, but among the workers themselves. Not having seen any of the films that were shown, it is difficult to express an opinion on the value of that medium for creating harmony, though one speaker said that, while one of the films shown had met with a good reception from the management side, it had had a hostile reception from the workers themselves. There must always be an uncomfortable feeling in the audience that there is a propaganda angle, probably quite transparent to the regular film-goer, who spots an advertising film immediately it begins. It may be that the very fact that the subject is screened at once detracts from the human relationship. Surely an opportunity for the worker to see at first hand the various stages in production, with the chance of putting questions at the bench, is better than the artificiality of the screen. I was interested to see that "much unresolved discussion arose as to whether the film should be shown in the time of the management or in the leisure-time of the worker."

MEDICAL RESEARCH UNITS ON VIEW

Jubilee exhibition at Hammersmith Hospital

IN connection with celebrations to mark the jubilee of the opening of Hammersmith Hospital and the twentieth anniversary of the inauguration of the Post-graduate Medical School of London, a medical exhibition at the Hospital was on view to invited guests on June 7 and to the general public on June 8. Also open to the public were Medical Research Council units engaged on different forms of research at the Hospital; and, in the Council's radiotherapeutic research building, two machines for the acceleration of atomic particles at high speeds. Visitors were shown an eight-million-volt linear accelerator for clinical use in the treatment of malignant diseases, and a new 45-in. medical cyclotron, the assembly of which was completed only three days before the exhibition, and which is not yet fully commissioned for routine use. The cyclotron, the first to be installed within the precincts of a hospital, is housed in a concrete box with walls 6 ft. thick. It was designed and assembled, at a cost of £200,000, entirely by the staff of the Unit, under the direction of the senior cyclotron engineer (Mr. J. W. Gallop, B.Sc. (Eng.), M.I.E.E.). The cyclotron produces neutron beams for extending the field of radiation therapy, beams of fast-charged particles such as deuterons for use in radiobiology and radiation chemistry and research, and radioactive isotopes. It is particularly useful in producing isotopes complementary to those produced in atomic piles, those having a high specific activity, and those having a short half-life, whose activity would be lost during transmission from pile to hospital.

The concrete chamber that houses the cyclotron is 44 ft. long by 20 ft. wide and 13 ft. deep, and is entered by a large door weighing 190 tons.

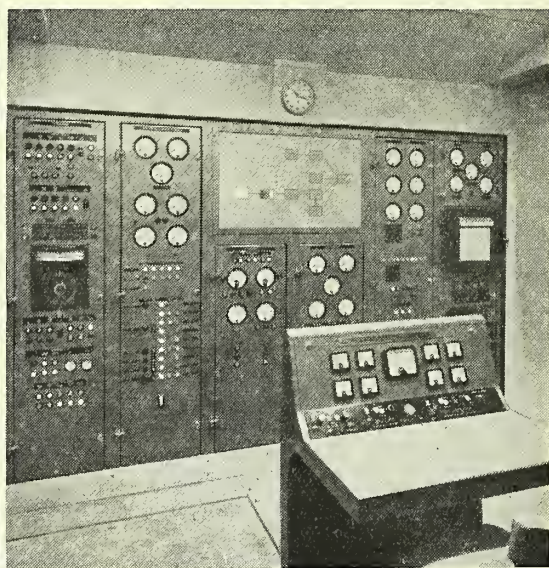
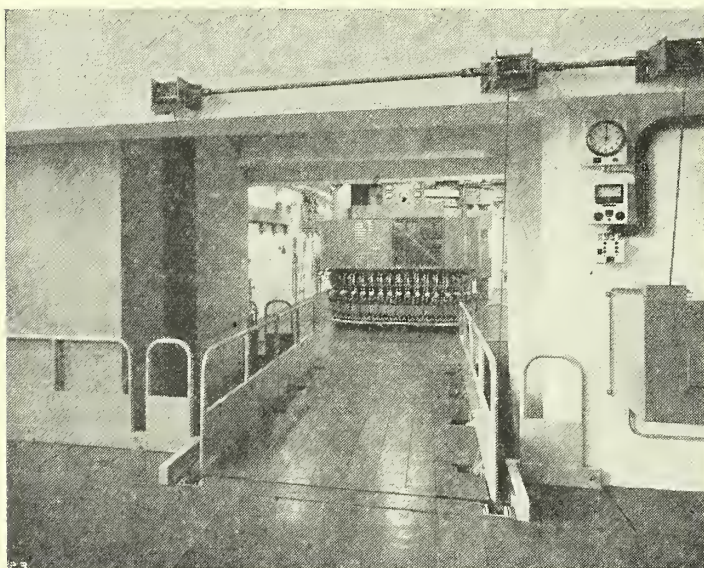


North face (the working face) of the cyclotron magnet.

The door moves on rollers, and when closed fits into its aperture with a maximum clearance of $\frac{1}{8}$ in. Access to the radiation room is through a steel-loaded concrete door weighing thirty-five tons, which, when fully closed, uncovers a water window through which the cyclotron may be viewed during operation. The chamber is air-conditioned, and on its roof is a small compartment holding the evaporative coolers, which dissipate the heat generated when the cyclotron is running. In the control room, a

control board occupies the whole of one wall-space, but the machine can be operated from the controls on a small desk at which the operator sits, reference to the board being only necessary in the event of a fault, or at the beginning of operation. On the same floor as the cyclotron chamber are two target-chemistry laboratories and two general-purpose rooms, one used for patients undergoing treatment with short-lived radioactive isotopes.

In the medical exhibition arranged by the Post-graduate Medical School



Left: View into the cyclotron chamber through the south door; at the back of the cyclotron can be seen the water-flow relays, thermostats and resistance thermometers in the water-cooling paths; radiation monitoring equipment can be seen on the wall outside the south door. Right: General view of the control room.

of London, were displays grouped according to the various departments of the School. Under surgery, a machine shown by Dr. D. G. Melrose was described as an extra-corporeal heart and lung machine, for use to replace the heart and lungs during heart operations and to assist those organs in certain diseases. A model heart, containing in one side blue fluid representing venous blood and in the other red fluid for arterial blood, was emptied. The venous blood was drawn off, pumped through a transparent plastic artificial lung, where it was oxygenated, and returned to the arteries, thereby by-passing the normal heart and lungs.

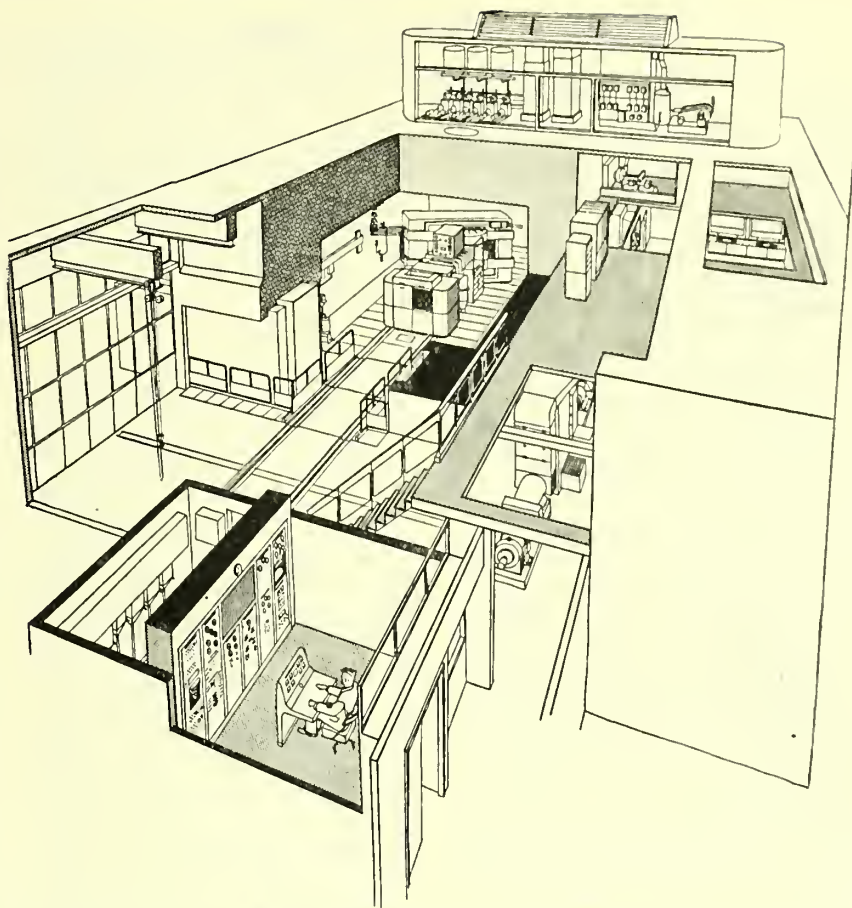
Mass Spectrometer

Among the exhibits of the Department of Medicine was a mass spectrometer for instantaneous analysis of respired gases. It is intended for use in studying lung function, such as the efficiency of mixing or the adequacy of diffusing surfaces, in chronic bronchitis, heart disease, etc. The machine analyses up to four gases simultaneously, continuously and rapidly, the results being recorded graphically and on an instrument panel. A working model of the heart and circulation, having valves that open and close like those in the human body, and which is used in the study of heart and circulatory disease was on show. Display boards illustrated the effect of the treatment of malignant hypertension with methonium salts or Ansolysen; and an exhibit showed the uptake of radioactive iodine by the thyroid gland.

The School's department of obstetrics and gynaecology showed a method of studying the utero-placental blood flow using radioactive sodium; and the determination of plasma volume using Evans blue, the plasma concentration being measured spectrophotometrically.

Among exhibits arranged by the department of pathology was a body counter designed to measure the total amount of radioactivity in the human subject undergoing isotope treatment. The counter is a box-shaped compartment about the size of a sentry-box, in which the subject stands upright. Eight geiger-counters are fitted into the angles, and the amount of radioactivity is read from a scaler on the top. Also shown were an ultra-filtration apparatus for the separation of chemical substances from blood, and a photosynthesis apparatus for preparing substances labelled with C_{14} , using radioactive carbon dioxide. One exhibit showed the study of hereditary anæmias, by electrophoretic analysis of the blood pigments, and another the assay of vitamin B_{12} in body fluids by inoculating a dilution of the fluid with the green alga *Euglena gracilis*. That alga requires the vitamin for its growth. The sample is incubated for six days and estimated colorimetrically.

Display boards illustrated the development of resistance of bacteria to antibiotics and the steps that may be taken to prevent it; and the development of new and improved vaccines for the treatment of chronic staphylococcal infections. There were also exhibits of autoradiographs of biological materials, showing the uptake of



Projection of the cyclotron installation, showing chamber and assembly bay, control room, coolers, plant rooms and laboratories.

radioactive substances by tissues, cells and chromosomes, and the chromatographic separation of amino acids.

Radioisotope Laboratory

In the radioisotope laboratory was a demonstration of the study of thyroid function using radioactive iodine. A thyroid couch was shown having a neck collar containing four geiger counters arranged so as to minimise inaccurate readings due to movement of the patient. The collar was designed by Dr. J. R. Mallard, in collaboration with Dr. N. Myant (experimental radiopathology research unit). Diagrams and photographs explained the diagnostic tests for thyroid function, and photographs illustrated the effects of radiation and radioisotope therapy on thyroid tissue. A diagram showed the cycle of absorption of radioactive iodine in the body. Apparatus on show included ratemeters and a pen-recorder for obtaining graphic records of the uptake of radioactive material; a scintillation counter for tracer work; and a winchester counter for estimating the amount of radioactivity in large volumes of urine.

The "hot" laboratory where radioactive isotopes are prepared for use, contained a fume cupboard for handling high-activity isotopes, a bottle-and-can-opening cell, and various remote-handling tools, including tongs and a remote-handling pipette. Stock solutions of radioactive iodine were on view, dispensed in suitable strengths

for small-volume work, tracer work and therapy. There was an ionisation chamber for measuring the potency of α - and β -emitting isotopes, and a lead-insulated safe containing isotopes.

Apparatus shown included a portable protection monitor to indicate the location of any radioactivity spilled; a centrifuge for separation of red blood cells; a scintillation counter and scaler fitted with a time-switch for liquid samples; several typical geiger counters; a needle counter-tube used as a probe in the location of brain tumours; and a tumour-bed scanning counter used in tumour surgery and in thyroidectomy to indicate whether the tumour or gland has been completely removed. Exhibits illustrated the treatment of polycythaemia vera with radioactive phosphorus, and the use of radioactive sodium for research into hydrocephalus. Another exhibit showed the study of the effect of radiation on the thyroid function of rabbits and the section on radiation protection for personnel showed that the hospital provided a service for four hospitals in measuring the amount of radioactivity absorbed by the film badges worn by members of the staff at those hospitals. Above the door at the entrance to the department a warning device sounded whenever there was too much radioactivity within the department, and an accident trolley contained everything likely to be needed quickly in the event of an accident involving radioactive material.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

THE new Parliament opened on June 9. The Queen's Speech read at the opening ceremony promised action to deal with abuses in the field of monopolies and restrictive practices. Industrial health and safety legislation is to be limited to agriculture and forestry in the new session. There will be legislation on valuation and rating in England and Wales and Scotland; and on air pollution.

Speaking in the debate on the Queen's Speech on June 9, Mr. C. R. ATTLEE (Leader of the Opposition) welcomed the Government's desire to proceed against monopolies. The proposed legislation on the health, safety, and welfare of people employed in agriculture and forestry seemed an extraordinarily meagre instalment of the recommendations of the Gowers report. He thought that a far more comprehensive Bill should have been introduced to deal with office workers and a whole range of non-industrial employees.

SIR ANTHONY EDEN (Prime Minister) replying, said that the Government had made a start with the industry where the problems were thought to be most immediate. Where examination disclosed that an abuse existed in the field of monopolies the Government would take effective action to deal with it. The Monopolies Commission inquiries sometimes showed that the alleged abuses were either harmless or even helpful. That had actually happened when the Monopolies Commission examined the supply of insulin. The Commission's report on exclusive dealing and collective boycott would be published within the next three weeks. The report would be of crucial interest and great public importance.

MR. R. E. WINTERBOTTOM said that shop and clerical workers could look forward to inactivity on the part of the Government on their conditions of labour for the next two years, despite the fact that the Gowers Committee had made its recommendations in 1947.

At the resumed debate on the Queen's Speech on June 14, Mr. OSBERT PEAKE (Minister of Pensions and National Insurance) said that the Gowers report involved three separate Bills: One dealing with agriculture and forestry; one with the railways; and the third, probably the biggest, with shops and offices. Included in the Speech was a proposal for a Bill founded on that report dealing with agriculture and forestry. Anyone who had made a close study of that industry with the higher rate of accidents would agree that it was right to give it priority. The Government was most anxious to proceed with the legislation at the earliest moment, but it was out of the question to have two enormous Bills in progress through the House at the same time.

MR. IAIN MACLEOD (Minister of Health), speaking "entirely personally" on the question of tribunals, said that he was troubled by the powers that he as a Minister had; powers

under which enormous fines could be imposed and under which he could take away a man's livelihood. It was true that one spent a great deal of time studying those matters but the conning of minutes was not the same thing as the hearing of evidence. That was a problem that should be inquired into.

Ban on Heroin

MR. IAIN MACLEOD (Minister of Health) told DR. SOMERVILLE HASTINGS and MR. NIALL MACPHERSON on June 13 that the British Pharmacopœia Commission was of the opinion in 1950 that a suitable alternative to heroin existed, and deleted the monograph on the drug from the 1953 edition of the British Pharmacopœia. His Medical Advisory Committee was specially consulted and endorsed that opinion. He had therefore advised the Home Secretary that there was no obstacle to his responding to the appeals of the World Health Assembly and the Economic and Social Council to prohibit the manufacture of the drug. DR. HASTINGS asked if there was any evidence of addiction in Britain, and whether the Minister had ever had, as he had had, an intractable cough which nothing but heroin would relieve. MR. MACLEOD said that the answer happily was "No," but there were people who believed that for a limited range of afflictions there was no true substitute for heroin. That had to be weighed against the larger claims of the Government playing their part in combating something which was a substantial social evil throughout the world. Although there might be little evidence of addiction in Britain, it was entirely desirable that, if international agreement could be obtained, the manufacture of the drug should be prohibited everywhere.

DR. EDITH SUMMERSKILL asked whether the substitute was as effective as and much cheaper than heroin.

MR. MACLEOD said that that was in dispute but most people would agree with her.

MR. MACPHERSON asked whether supplies could not be made available to practitioners in cases where it could be shown there was no adequate substitute, and whether, if he produced evidence of such cases, the Minister would consider it.

MR. MACLEOD: Yes. The Home Secretary is going to receive a deputation from the British Medical Association, and those matters can be examined then.

MR. WALTER ELLIOT said that the drug was of great use in certain cases and could not be dispensed with. He urged the Minister to bend his utmost efforts to see that supplies were made available to reputable practitioners. MR. MACLEOD said that he would take that into account. All he could do was to take the best advice available which was from his Medical Advisory Committee, which included the presidents of the Royal Colleges, the chairman of the council of the British

Medical Association and the president of the General Medical Council. Their view was one to which the greatest attention had to be given.

SIR ROBERT BOOTHBY asked the HOME SECRETARY whether, in view of the protests of the British Medical Association and of the medical profession against the threatened withdrawal of heroin, he would now permit the manufacture of that drug in limited quantities for use by medical practitioners, and subject to a ban on its export.

SIR HUGH LUCAS-TOOTH (Under-Secretary, Home Office) replied that the council of the British Medical Association had asked the Home Secretary to receive a deputation on the subject and he had agreed to do so.

SIR ROBERT BOOTHBY asked the HOME SECRETARY to bear in mind that, in the opinion of the great majority of the medical profession, that drug alone could bring relief to certain types of pain, particularly that connected with inoperable cancer. As there were only forty heroin addicts known in Britain would he bear in mind that it was most undesirable that possibly avoidable suffering should be inflicted on thousands of cases if adequate control over the drug could be devised?

SIR HUGH LUCAS-TOOTH said that the Home Secretary would prefer to postpone his reply until he had had an opportunity of discussing the matter with the deputation.

Truss Firm's Withdrawal from N.H.S.

MR. IAIN MACLEOD (Minister of Health) told MR. E. FLETCHER on June 15 that he had not seen a circular distributed by the Brooks Appliance Co., Ltd., saying that the reason it had withdrawn from the National Health Service was that it was required by his Department to supply inferior trusses. The firm had withdrawn, so far as he knew, without giving any explanation to his Department.

Prescription Charges

MR. IAIN MACLEOD (Minister of Health) told MR. C. L. HALE on June 13 that the payments made by patients in England and Wales for prescriptions under the National Health Service had amounted in the year ended March 31, to approximately £7 millions. No payment was made to chemists or doctors for collecting the charges. The charges might be irritating but they brought in £7 millions and the amount might be more if their deterrent effect were abolished. The question was whether that was the best way of spending £7 millions on the National Health Service. What the Government wanted to do was to build new hospitals.

Drug Costs

MR. A. BLENKINSOP asked the Minister of Health on June 13 what further progress had been made in his discussions with the pharmaceutical industry about the cost of drugs and appliances prescribed through the National Health Service. MR. IAIN

MACLEOD said that the manufacturers both of standard drugs and of the main types of surgical dressings had been informed that the results of the cost investigations did not suggest there was any call at present for intervention by the Government, subject in the latter case to certain assurances. Discussions had been continuing with the industry on the general principles to be followed on the prices of proprietary preparations. Basic drugs, which could not be dealt with separately, were still under investigation, and meanwhile the firms themselves had continued to reduce the prices of some important drugs.

Antibiotics and Resistant Strains

DR. B. STROSS asked the Minister of Health on June 13 whether more research on strains of bacteria resistant to penicillin and on uncontrollable allergies to penicillin should be undertaken in order that more varied types of new antibiotics and possibly, a greater discrimination in their use might be obtained. Miss P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) replied that the Minister's medical advisers had been studying the research that had been going on in that field for the past three years, and the Department was in the closest touch with all the research that has been conducted in the matter.

Poliomyelitis Vaccine

DR. B. STROSS asked the Minister of Health when it was proposed to vaccinate groups of children in Britain against poliomyelitis; and what type of vaccine was to be used.

MR. IAIN MACLEOD (Minister of Health) said that a member of the staff of the Medical Research Council had just returned from a visit to the United States where he had studied the latest developments. His report was being considered and a fuller statement would be made at an early opportunity.

The Food and Drugs (Scotland) Bill to amend and consolidate certain enactments in Scotland relating to food and drugs was given its first reading on June 10. The Rating and Valuation (Miscellaneous Provisions) Bill was read a first time on June 10.

BIRTHDAY HONOURS

AWARDS in the Queen's Birthday Honours list published on June 9 include the following:—*Baron*, Sir Geoffrey Heyworth (chairman, Unilever, Ltd.); *K.C.B.*, Sir John Alexander Charles (chief medical officer, Ministry of Health), Mr. Thomas Douglas Haddow (Under-Secretary, Department of Health for Scotland); *K.B.E.*, Mr. Alexander Fleck (chairman, Imperial Chemical Industries, Ltd.); *C.B.E.*, Mr. D. D. Pratt (director, Chemical Research Laboratory, Department of Scientific and Industrial Research), Dr. M. L. Rosenheim (professor of medicine, London University); *O.B.E.*, Lieutenant-Colonel F. A. Mackell (manager, Australian Branch, Scott & Bowne, Ltd.); *M.B.E.*, Mr. H. A. C. Thomas, M.P.S. (Hubert A. C. Thomas & Co., Ltd., manufacturing chemists, Llanelli).

NEW COMPANIES

P.C.—Private Company; R.O.—Registered Office.

EDWARD STENTON, LTD. (P.C.).—Capital £2,000. To carry on the business of general chemists, etc. Directors: Edward Stenton, M.P.S., and Joan M. Stenton. R.O.: 45 Bell Street, Wigston Magna, Leicester.

J. S. REOCH, LTD. (P.C.).—Registered in Edinburgh. Capital £5,000. To carry on the business of dispensing chemists and druggists, etc. Directors: E. M. Reoch and D. R. Pirie, M.P.S. R.O.: 203 Blackness Road, Dundee.

WALLIS JONES, LTD. (P.C.).—Capital £100. To carry on the business of wholesale or retail chemists, herbalists and seedsmen, etc. Directors: Charlotte F. Jones and William R. Parkin, M.P.S. R.O.: 2 Manor Parade, Hinchley Wood, Esther, Surrey.

D. T. DAVID, LTD. (P.C.).—Capital £3,000. To carry on the business of chemists, druggists, opticians, etc. Directors: Dudley T. David, M.P.S., and Johanna M. David. R.O.: 280 Barlow Moor Road, Chorlton-cum-Hardy, Manchester.

THURGUR & STENNER, LTD. (P.C.).—Capital £100. To acquire the business of a pharmacist formerly carried on by D. H. Thurgur, M.P.S., at 5 East Street, Crewkerne, Somerset. Directors: Dennis H. Thurgur and Chad D. Stenner.

J. W. T. MORRISON & CO., LTD. (P.C.).—Capital £5,000. To acquire the business of a retail chemist and druggist. Directors: Alexander Smith, M.P.S., Frank W. Cooper, M.P.S., and Frederick G. Wilson. R.O.: 26 High Street, Tring, Herts.

CHARLES STEPHEN (DUNDEE), LTD. (P.C.).—Registered in Edinburgh. Capital £3,500. To carry on the business of dispensing chemists and druggists, etc. Directors: J. H. Stephen, J. Stephen and A. S. Keith. R.O.: 46 Wellgate, Dundee.

JOHN MOORE (CHICHESTER), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale or retail chemists and seedsmen, etc. Directors: John R. Moore, Emily Moore and Emily C. Moore. R.O.: 29 East Street, Chichester, Sussex.

ESLER PHARMACY, LTD. (P.C.).—Registered in Belfast. Capital £5,000. To acquire the business of chemists and opticians formerly carried on by the late William Esler at 42 Howard Street, Belfast. Subscribers: Marie Esler and Dr. Joseph Ritchie. R.O.: 42 Howard Street, Belfast.

ANPAT, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers and distributors of and wholesale and retail dealers in drugs medicines, veterinary products, etc. Subscribers: Kenneth J. Bowkett and Andrew Sistrum. R.O.: Long Causeway Chambers, Peterborough, Northants.

H. E. MATTHEWS (1955), LTD. (P.C.).—Capital £1,000. To carry on the business of dispensing chemists, herbalists and seedsmen, etc. Directors: Marion Gottlieb, M.P.S., and Golda Gottlieb. R.O.: 66 Kennington Park Road, S.E.11.

Company News

Previous year's figures in parentheses

BOVRIL, LTD.—Final dividend recommended on deferred capital is 12½ per cent., making 15 per cent. (12½ per cent.) for 1954; after taxation, £418,448 (£419,665), group net profit is £342,203 (£307,942).

GENATOSAN, LTD.—Mr. C. E. B. Macqueen who recently joined the company as commercial manager has been appointed to the board. He fills the vacancy caused by the appointment of Mr. A. S. Woodhams to a post with Fisons, Ltd., Felixstowe.

BARFOS, LTD.—Consolidated profits for 1954, before taxation, are £187,160 (£188,632) after all charges including depreciation of £10,021 (£9,358). U.K. taxation on current profits, £104,689 (£96,075); net profit, £82,471 (£92,557); over-provision for taxation in past years, £14,078 (nil); stock contingency reserve brought back, nil (£20,000); interim ordinary dividend, less tax, £25,875 (nil). Forward, £229,210 (£167,611). Permission to deal in the £450,000 ordinary share capital of the company is being sought on the London Stock Exchange. The preference shares are already quoted on the Exchange.

BUSINESS CHANGES

PENDRED & HEIM have removed to 64 Crutched Friars, London, E.C.3.

MR. JAMES P. BUCHAN, M.P.S., has acquired the pharmacy of Mr. A. W. Ritchie, M.P.S., 198 High Street, Montrose, Angus.

EDWARDS HIGH VACUUM, LTD., is the new title adopted by W. Edwards & Co. (London), Ltd., Manor Royal, Crawley, Sussex.

JAMES BROWNE & CO., LTD., are moving their offices and warehouse to Maunsell Place, Mountjoy Street, Dublin, Eire (telephone: Dublin 45146), on July 1.

DURING the week commencing June 27, the London sales office of Boots Pure Drug Co., Ltd., wholesale, export and hospital sales departments, 71 Fleet Street, E.C.4, are being transferred to the new Fleet Street telephone exchange. The number will then be Fleet Street 0111.

Appointments

GLAXO LABORATORIES, LTD., have appointed Mr. W. B. Emery, B.Sc., F.R.I.C., factory manager at the company's plant at Ulverston (Lancs).

PAINES & BYRNE, LTD., Pabym Laboratories, Bilton Road, Greenford, Middlesex, have appointed Miss T. J. Williams their medical representative in Kent.

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have appointed Mr. J. D. Biggs representative in the Birmingham territory and Mr. H. Huson Jones in the Nottingham territory.

CLINICAL PRODUCTS, LTD., 2 The Green, Richmond, Surrey, have appointed Mr. C. C. Mason their representative for East London and Essex and Mr. J. S. Pike for Lancashire and North Cheshire.

PERSONALITIES

MR. W. P. EWART (president of the Pharmaceutical Society of Northern Ireland) returned recently from a holiday in South Africa.

MR. J. L. HIRST, M.P.S., who was elected a life vice-president of Liverpool Chemists' Association and Branch of the Pharmaceutical Society at its annual meeting on May 31 (see *C. & D.*, June 11, p. 632) has been a member of the Association since 1910. He served as secretary for four years, acted as vice-president

for a number of years, and was president for three years. Mr. Hirst, who is seventy-five years old, started his apprenticeship in 1896 in the West Riding of Yorkshire, and worked in London for a period before going to Liverpool in 1907. He became a director of Budden & Co., Ltd., of which company he is now chairman, in 1910. He has been a member of the Liverpool Insurance Committee and the Liverpool Executive Council since their inception and is also chairman of the house committee, Alder Hey Hospital, Liverpool.

MR. ALAN WOODWORTH JOHNSON, B.Sc., Ph.D., D.I.C., has been elected Sir Jesse Boot professor of organic chemistry and head of the Department of Chemistry, Nottingham University, from September 1.

LT.-COL. F. A. MACKELL, M.C., who received the O.B.E. in the Queen's Birthday Honours List (see p. 661), is manager of the Australasian branch of Scott & Bowne, Ltd., manufacturing chemists, London. After serving with the Australian Imperial Forces in the Middle East during the 1939-45 war, he spent some time with Scott & Bowne, Ltd., in London before returning to Sydney and taking up a position in the company's branch there, of which he is now manager.

MR. JOHN L. DAVENPORT (executive vice-president, Chas. Pfizer & Co., Inc.) was entertained to luncheon at the Guildhall, Sandwich, by the mayor (Councillor J. J. Thomas) on June 3. The occasion was Mr. Davenport's first visit to Rich-



borough since his company (through its British branch, Pfizer, Ltd., Folkestone) commenced building there a factory, now nearing completion, for the production of broad-spectrum antibiotics. Mr. Davenport spoke of his first inspection of the Richborough

site and factors that governed his recommendation to his fellow directors that it should be the place for the installation. Mr. John A. Rodgers (a director of Pfizer, Ltd.), and Mr. P. V. Colebrook (works and production manager) were also present. Mr. Davenport has been associated with the company throughout his entire business career. Born in Hamilton, Ontario, Canada, he gained his Bachelor of Applied Science degree in chemical engineering from the University of Toronto in 1929, and joined Messrs. Pfizer in the same year. For many years he was concerned with the technical side of the company's development and made patented contributions in the manufacture of anhydrous citric acid, etc. He was later successively department head, assistant superintendent and, from 1946, a director.

MISS L. M. B. BROWN, M.P.S., Birmingham, is retiring at the end of June after forty-five years' service as pharmacist to the Birmingham Women's Hospital, Showell Green Lane, Sparkhill, Birmingham. Miss Brown joined the hospital staff as pharmacist in August 1910.

MARRIAGES

BEDFORD—SAVILLE. — At St. John's Church, Bowling, Bradford, on June 8, Albert Henry Bedford, Bury Walk, Goldington, Bedford, to Gwyneth Brooke Saville, M.P.S., West View, East Bowling, Bradford.

BUDGE—JORDAN. — Recently, Derek John Budge, M.P.S., 87 Andover Road, Newbury, Berks, to Barbara Joan Jordan, The Briars, Ashford Hill, Berks.

DEATHS

BAKER.—On May 24, Mr. Albert John Joseph Baker, M.P.S., Woodstock, Thundersley Grove, Thundersley, Essex, aged seventy-nine.

BAKER.—At King Edward VII Hospital for Officers, London, W.1, on June 5, suddenly, Mr. Alfred Guy Baker, aged sixty. Mr. Baker was sales manager of Richard Hudnut, Ltd. Before the 1939-45 war he was general sales manager of Tokalon, Ltd., and Optrex, Ltd. After service during the war he rejoined Optrex, Ltd., as general manager. He joined Richard Hudnut, Ltd., as sales manager in 1952.

BLOCKLEY. — On May 22, Mr. Frederick George Blockley, M.P.S., 36 Letchworth Road, Leicester, aged seventy-nine.

DAVIES. — On May 23, Mr. John Alfred Davies, M.P.S., 53 Marine Drive, Rottingdean, Sussex, aged seventy-six.

DONALD. — At 18 West Princes Street, Helensburgh, Dunbartons, on May 22, Mr. James Gavin Donald, M.P.S. Mr. Donald qualified in 1919.

EADDIE.—On May 22, Mr. Walter Eaddie, F.P.S., 69 Stainburn Drive, Leeds, 7, aged seventy-five. Mr. Eaddie qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1903.

GAZE.—On June 10, suddenly, Mr. William Ernest Gaze, M.P.S., The Cedars, Castle Hedingham, Essex, aged seventy-eight. Mr. Gaze was in business at Highams Park, London, E.4, from 1906 to 1948, when he retired. He served for many years as secretary of the East Metropolitan Branch of the Pharmaceutical Society, of the Walthamstow Association of Pharmacists, and of the local branches of the National Pharmaceutical Union and the Proprietary Articles Trade Association. He was a keen naturalist and a member of the London Natural History Society. He is survived by his widow, two sons and two daughters. The elder daughter (Mrs. H. J. Copsey) and the younger son (Mr. A. B. Gaze) are members of the Pharmaceutical Society.

GOWER.—On January 28, Mr. John Gower, M.P.S., Glengower, Llangeler, Llandysul, Cardigans, aged eighty-two. Mr. Gower was for many years in business at 14 Vaughan Street, Llanelly.

HODGSON. — On May 19, Mr. George Cuthbert Hodgson, M.P.S., 21 Storer Road, Loughborough, Leics, aged sixty-six.

HOVANESIAN.—On May 10, Mr. Alec Hovanessian, M.P.S., Kynance, New Way, Tranmere Park, Guiseley, Yorks. Mr. Hovanessian qualified in 1936.

NASH. — On May 30, Mr. Frank Nash, F.P.S., 24 Beresford Road, and formerly 14 Beresford Road, Chingford, London, E.4, aged seventy-three. Mr. Nash qualified as a chemist and druggist in 1905 and passed the Pharmaceutical Chemist examination in 1906. Prior to 1946, he was for many years in business at 100 Stoke Newington Church Street, London, N.16.

PRANCE. — Mr. Henry Pearce Prance, F.P.S. (see *C. & D.*, June 11, p. 634), was aged forty-four and not as previously stated.

SALAMAN.—At Homestall, Barley, Royston, Herts, on June 12, Mr. Redcliffe Nathan Salaman, M.D., F.R.S., aged eighty. Dr. Salaman was an authority on nutrition. He was director of the London Hospital's pathological institute, 1901-04. Later he devoted himself entirely to scientific work, his main interest being the study of the potato with a view to increasing its value as food. He was a former director of the Potato Virus Station, Cambridge University, and vice-president of the National Institute of Agricultural Botany.

SPINK.—On May 23, Mr. Richard Spink, M.P.S., 12 Hartley Avenue, Monkseaton, Northumberland, aged seventy-nine.

WILKINSON. — On May 31, Mr. George Henry Wilkinson, M.P.S., 141 Broadway North, Walsall, Staffs, aged eighty-two. Mr. Wilkinson had a pharmacy in Wednesbury, Staffs, from 1897 until he retired in 1945. Until a few months ago he engaged in locum work. He is survived by his widow and two sons.

WRIGHT.—On June 9, Mr. Stuart Pinnington Wright, M.P.S., Hillcot, Dyserth, Flints. Mr. Wright qualified in 1921.

TRADE NOTES

Holiday Sellers.—San Sat, a product for removing beach-tar and oil stains from skin and clothes, and Bromodal, a preventive of travel sickness in children, are two seasonable specialties available from John Bell, Hills, Lucas, Ltd., Oxford Works, Worsley Bridge Road, London, S.E.26.

Changed Sizes.—Hough, Hoseason & Co., Ltd., Atlas Laboratories, Levenshulme, Manchester, 19, are discontinuing from June 9 the 1s. 10d. size of Valomel antiseptic hand lotion and introducing two new sizes. Both sizes are subject to usual quantity discounts in either "straight" or mixed parcels.

Professional Discount Increased.—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, announce that the professional discount on their Terramycin veterinary preparations is being increased to 20 per cent. on June 20. They also announce new quantity prices for supplies of Terramycin animal formula for mastitis.

Change of Name.—Trufood, Ltd., Green Bank, London, E.1, announce that the apple variety in their Spoonfoods range of strained and homogenised baby foods is being renamed "apple puree." The formula is unchanged. Jars carrying the new label are being issued against orders for the apple variety as soon as stocks of the old label are exhausted.

Dual-purpose Insecticide.—Secto Co., Ltd., Shaw Street, Blackburn, point out that they and other manufacturers have, for a period of some years since the war, been marketing insecticides combining "knock-down" with residual properties. Secto liquid preparations are entirely suitable for building up an effective residual-action surface to walls, etc.; one of the company's domestic insecticidal products contains dieldrin.

Children's Tooth-brushes in Three Sizes.—Spa Brushes, Ltd., Freeman Works, Chesham, Bucks, are in production with what now proves to be a more than timely idea, following a recent report by the Ministry of Health on child dental hygiene (see p. 655). Messrs. Spa will shortly be offering the trade a displaypiece containing children's tooth-brushes in three different sizes: one for babies, one for toddlers, and one for juniors. The message on the displaypiece will tie up closely with the new interest taken in child dental hygiene, and chemists are to be supplied with stock refills to keep the display—which is free—properly stocked.

Bonus Offer

WALTER CROWE, LTD., 3 Little Russell Street, London, W.C.1. Simpson's foot ointment. Twelve charged as eleven (minimum 1 doz.) until June 30.

Exhibition

INTERNATIONAL DRY CLEANING, DYEING AND ALLIED TRADES EXHIBITION, Munich, July 15-24. About 100 German exhibitors. Belgium, France, Holland, Italy, Sweden, Switzerland and the United States represented. A major item featured at the exhibition will be steam boilers.

NEW PRODUCTS AND PACKS

Napkin Pin.—The Whitecroft special napkin pin made by the Whitecroft Pin Manufacturing Co., Ltd., Whitecroft, Glos, is made from stainless steel. The wire used for the curved pin is thinner as well as stronger and more pliable than other types. It is rustproof, and the point is so sharp that it can be pushed through many folds of material with ease. Each card of four pins is issued mounted on a transparent-wrapped card.

Colonic Actuator.—Bayer Products, Ltd., Neville House, Eden Street, Kingston-on-Thames, Surrey, draw attention to a new speciality, Veripaque, described as a colonic actuator (it is added to barium enemata for radiological use). Veripaque causes peristaltic waves and enables them to be photographed while the patient is on the table. The product is described in a paper by Drs. McLaren, King and Copland in the June issue of the *British Journal of Radiology* and the author concludes that by means of this preparation radiological examination of the colon becomes a more exact study. The active ingredient of Veripaque is dihydroxyphenylisatin. The product is issued in 3-gm. tube in box of six tubes.

Two Antiseptics and a Deodorant.—Racasan, Ltd., Cromwell Road, Ellesmere Port, Ches, have introduced three new products, Racalon antiseptic cream, Racalon antiseptic rinse, and Ridsmell animal deodorant. The two Racalon products are being introduced to chemists only. Ridsmell animal deodorant will be sold to other outlets also. Racalon antiseptic cream is issued in outer of six display boxes each containing six 1½-oz. tubes; and Racalon antiseptic rinse in outer of six 8-oz. grooved bottles. With each case there is included a transparent bag containing a quickly fitted and

colourful bottle crowner and a supply of counter leaflets. Ridsmell animal deodorant is packed similarly to Racalon rinse. The main active ingredient of the three products is decoxy-2-hydroxypropyl-methylidichanol ammonium acetate.

Ergometrine with Hyaluronidase.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, announced to doctors and hospitals on May 23 a new product, Ergometrine with Rondase (hyaluronidase, Evans). The rationale of combining the two for producing contraction of the puerperal uterus is based upon the accelerating effect of the latter on the absorption of ergometrine. The combined injection has an effect comparable with the rapid absorption obtained on intravenous injection of ergometrine, and enables the midwife (who cannot give intravenous injections of ergometrine) to obtain uterine stimulation much more quickly. Ergometrine with Rondase is issued in a dual pack containing one 1-mil ampoule of ergometrine malcate, B.P., 0.5 mgm., and one vial of 1 mgm. Rondase.



"DISPENSER" PACK WITH BONUS: A new bonus scheme for Halex tooth-brushes launched by the Halex Division of the British Xylonite Co., Ltd., Highbury Park, London, W.4, provides retailers with free brushes in brightly-coloured dispenser packs. Two free brushes go with every dispenser containing two doz., eight with forty-eight brushes, thirty-six with 144 brushes. The offer is open until July 31.

EFFICIENCY IN BUSINESS

Exhibition of office equipment points the way

THE Business Efficiency Exhibition was held in London, June 6-16. Over 117 firms exhibited in this "largest display of office equipment ever held anywhere." Pride of place was taken by the electronic calculators that have now emerged from the back-room-wonder stage. But there was also a wealth of simpler devices that are capable of adding in no small measure to the efficient conduct of business; or, put in another way, that can help to trim the administrative tail that has a tendency to wag the production dog.

Stock-control is a time-consuming task in the chemist's as in other businesses. THE SHANNON, LTD., London, W.C.2, demonstrated their Shannoleaf visible record system. In a special binder, each record card overlaps so that a visible edge is shown on each. Thus the contents of many records can be seen at a glance. The company undertake to design and print record forms to suit each customer's requirements. The company also showed their Shannoblic suspended and "visible" filing

system for correspondence. Other exhibitors of filing systems included FRANK WILSON & Co., LTD., Southport, Lancs; and REMINGTON RAND, LTD., London, W.C.1.

Among exhibitors of calculating machines were BURROUGHS ADDING MACHINE, LTD., London, W.1, and OFFICE MACHINERY, LTD., London, W.1. The latter demonstrated the simple CarTex portable adding machine which it is claimed can be used by anyone without special training. It is of use in offices for the checking of totals, cash books, ledgers, invoices, etc., or can be of equal assistance at the counter of a shop for adding up the customer's bill. The machine is available in sterling and decimal models.

A new book-keeping machine for small and medium-sized firms was shown by THE NATIONAL CASH REGISTER Co., LTD., London, N.W.1. The carriage is designed to carry almost any kind of accounting form or ledger card and is equipped with a particular bank of keys for printing the accepted

three-letter abbreviations. National adding machines are now fitted with "live-keyboard," a device that obviates the use of the conventional motor bar, each amount key acting as its own motor-bar. Thus the operator's hands are freed for the setting up of figures.

Cash Registers

The Ideal itemising cash register demonstrated at the stand of G. H. GLEDHILL & SONS, LTD., Halifax, Yorks, is a new machine that issues an itemised bill for each customer. The assistant enters and prices all the items on a locked-in paper roll. He then turns a handle which prints the bill head (trading title, address and publicity matter), dates it, and ejects the bill, which contains a copy of the entries made on the private roll. Simultaneously the cash drawer is thrown open and the private roll is advanced ready for the next transaction. It is claimed that the machine is very economical in stationery. The standard record-roll is $3\frac{3}{4}$ in. wide. A $5\frac{1}{2}$ -in. wide roll is also available where extra cash or analysis columns are required.

The Autobill cash drawer shown by AUTOMATICKET, LTD., London, W.1, issues a bill and opens the cash-drawer after entries have been made by the assistant and a lever depressed. The bills are pre-printed. The cash trays are removable and are fitted with locking covers to form a cash box. The Paragon sales register shown by LAMSON PARAGON SUPPLY CO., LTD., London, E.16, can now be fitted with an automatic carbon change. The roll of carbon is automatically moved a fraction of an inch, in the style of a typewriter ribbon, after each operation of the machine. The Sweda sales register was shown by LONDON OFFICE MACHINES, LTD., London, S.W.1. The register is fitted with banks of keys for recording amount, assistant and dissection. Those details are printed on an audit roll kept locked in the machine and on a ticket automatically guillotined and issued from the register. The amount of each item and the total are also shown on an indicator on both sides of the machine. At any time, the total sales, each assistant's total or the dissection totals can be obtained by

depressing appropriate keys, which are removable.

Besides a range of Frankopost postal franking machines, UNIVERSAL POSTAL FRANKERS, LTD., London, W.1, demonstrated the Totometer counting and imprinting machine which can be used for the printing on folded cartons of such information as batch numbers and date. The machine may also be used simply as a counter. It will deal with up to 1,000 items a minute.

Self-binding Systems

Various self-binding filing systems were on view. The Jetbind of FRANK WILSON & CO., LTD., Southport, Lancs, makes use of a lever arch-file as the master binder. Papers are filed between stiff covers; when the file is full a metal binder prong is inserted in the hollow posts of the arch. The covers and contents are lifted off the file on to the prong which is then bent to close it. A cloth flap attached to one cover is pasted up to form a spine to the bound volume. Similar binding systems were demonstrated by the LONDON LETTER FILE CO., LTD.

BRITISH PLASTICS ON SHOW

Third exhibition and convention in London

THE third British Plastics exhibition and convention which opened at Olympia, London, W.14, on June 1, was attended by 35,150 visitors, nearly 8,000 more than the figure for the previous exhibition in 1953. It covered materials, fabrication processes, equipment and a range of finished products of interest to a wide variety of consumers.

One feature appreciated by visitors was the ease with which exhibitors' stands were located—the result of rigid arrangement of stands in alphabetical and numerical order, the fact that exhibitors' names, instead of stand numbers, were clearly marked on the plan in the catalogue, and that each stand displayed a card showing the stand number.

Exhibits of pharmaceutical and medical interest are reviewed below:—

THE GENERAL ELECTRIC CO., LTD., London, W.C.2, showed plastic bones and splints for replacing diseased bone; and plastic surgical jackets, developed by the Plastics Research Unit of the Institute of Orthopaedics and the Faculty of Engineering, King's College Hospital, London.

Nylon bottles in capacities of $\frac{1}{2}$ oz. to 1 pint, which withstand most chemicals and commercial solvents and can be sterilised by autoclaving, and seamless polyethylene bottles for industrial and laboratory use and for perfumery were shown by LACRINOID PRODUCTS, LTD., Gidea Park, Essex; the same company were exhibiting Vietum, a plastic material for covering rods, tubes and bars by heat shrinkage; an invalid crutch was shown covered by that method.

A wide range of plastic laboratory ware was shown by REDIWELD, LTD., Crawley, Sussex.

Chemical and brine pipes and industrial tanks were among the products

shown by FIBREGLASS, LTD., St. Helens, Lancs.

Vulcathene acid-resisting mouldings for general chemical and laboratory equipment were shown by J. S. & F. FOLKARD, LTD., Edgware, Middlesex; the company's stand featured a large photograph of a teaching laboratory at Liverpool University, where Vulcathene had been used for bench drainage and fittings.

Machinery

The model 2G5 Formvac turn-table vacuum forming machine exhibited by W. EDWARDS & CO. (LONDON), LTD., Crawley, Sussex, incorporates drape moulding, which extends the scope of vacuum moulding of thermoplastic sheets to a range of bigger and deeper articles and provides an improved process for shallow articles previously negative-moulded.

Rotocube dry-mixing machines, including a small laboratory model, were shown by FOSTER, YATES & THOM, LTD., Blackburn, Lancs.

Mixing machinery, including an "easy-to-clean" laboratory mixer with interchangeable blades, intended for use in research laboratories, was shown by WINKWORTH MACHINERY, LTD., Staines, Middlesex.

Thermoplastic mouldings for the pharmaceutical and cosmetic industries were shown by MICA PRODUCTS, LTD., Tonbridge, Kent, and INJECTION MOULDERS, LTD., London, N.W.9.

A standard range of nylon combs and sunglasses, including new hingeless sunglasses, were shown by E. R. HOLLOWAY, LTD., Welwyn, Herts.

Plastic cups and beakers were shown by LONDON MOULDERS (PLASTICS), LTD., Slough, Bucks, and on the same stand among the products of P. B. Cow & Co., LTD. (the parent company), were shown Li-lo baby pants.

Among packaging materials exhibited by CASCELLOID (DIVISION OF THE BRITISH XYLONITE CO., LTD.), Leicester, were low-priced extruded acetate containers for toilet preparations; new designs and applications for Tuboplast polythene collapsible tubes; and a triple pocket-package for medicinal tablets or capsules.

Telcothene-coated papers and boards for packaging were among exhibits by the TELEGRAPH CONSTRUCTION & MAINTENANCE CO., LTD., Greenwich.

Aerosol valves were exhibited by UNIVERSAL METAL PRODUCTS, LTD., Salford, Lancs, and a large range of closures for collapsible metal tubes, the closures being fixed on to the tube so that they are not completely removed and possibly lost in use.

Ioco, LTD., Glasgow, W.3, showed, among other products, industrial protective clothing in polyvinyl-chloride-treated fabrics.

Raw Materials

Plasticisers and stabilisers for polyvinyl chloride, and the Abrac series of "reodorants" for use in disinfectants, solvents, pesticides, detergents, etc., were shown by A. BOAKE, ROBERTS & CO., LTD., London, E.15.

A new resin, resin M.S.2, for the production of nitrocellulose lacquers, was shown by HOWARDS OF ILFORD, LTD., Ilford, Essex.

Plastics materials exhibited by MONSANTO PLASTICS, LTD., London, S.W.1, included Lustrex Hi-flow 55, a new soft-flowing polystyrene moulding powder.

Other exhibitors of raw materials for the plastics industry were:—THE BRITISH OXYGEN CO., LTD.; IMPERIAL CHEMICAL INDUSTRIES, LTD., London; SHELL CHEMICALS, LTD., London, W.C.2; and THE GEIGY CO., LTD., Manchester.

PROTESTS AGAINST HEROIN BAN

Representatives of British Medical Association and of Local Medical Committees in conference

AT the annual representatives' meeting of the British Medical Association, held in London June 1-4, there were a number of motions protesting against the Government ban on heroin. A motion "that this meeting protests against the threatened withdrawal of that most excellent sedative heroin, which is of inestimable value in so many conditions, and recommends that it should still be manufactured in this country for use by medical practitioners but not exported," was carried. DR. E. A. GREGG (chairman of the Association's council) said that he thought it was most regrettable that the Association was not consulted. DR. R. HALE-WHITE said that methadone was not a substitute for heroin. DR. G. E. MALONEY, Oxford, said that he had found nothing so good as heroin during the first two or three days after an abdominal operation. Vomiting was less than with morphine. DR. J. J. M. HAMILTON (a member of council) said that international action was seldom taken painlessly. Great Britain's reputation in the matter of control of addiction was by no means a good one. Heroin addiction was a major international problem. He added that the use of heroin was to some extent a matter of prescribing habits. DR. S. WAND, Birmingham, said that the question was: Should a few sufferers be allowed a little extra suffering to try to solve a grave international problem?

Another resolution was passed, protesting against the Government's action in banning heroin without consulting the B.M.A. In the absence of such consultation, the resolution stated, the Government could not claim to have ascertained the views of the medical profession before deciding.

Drugs for Private Patients

The meeting agreed that the Association should continue to press for the supply of drugs and appliances under the National Health Service to private patients. The council was instructed to find out how many private practitioners concerned would be prepared to accept suitable safeguards. DR. G. P. HENRY, Glasgow, criticised the surcharges for over-prescribing. "The doctor is not entitled to prescribe what he thinks the patient needs. He is only entitled to do so subject to what some committee or other thinks is an excessive drain on funds." DR. G. D. THOMPSON, Lancaster, said that one doctor who appeared before a committee had been prescribing at a rate of £300 a month in excess of his colleagues. A motion that in view of the widespread disquiet in the medical profession, full information should be published on the present definition of excessive prescribing was lost.

A proposal that the council should "take note of the irritation and inconvenience caused to general practitioners by the advertising methods of the pharmaceutical industry as a whole and inquire into the problem and confer with representatives of the industry to

alleviate it," was discussed. DR. DAVID BLEND, St. Pancras, criticised mail advertising and spoke of the waste of time with travellers. DR. A. G. MANLEY, Richmond, suggested that the money should instead be spent on research. DR. SMITH, Tower Hamlets, said that it would be difficult for the general practitioner to keep abreast of the 1,000 new preparations produced each year. He suggested a discussion with the Association of British Pharmaceutical Industry to have information about new drugs circularised on standard cards which could be easily filed. The meeting passed to the next business without voting.

Medical Committees' Conference

AT the annual conference of representatives of Local Medical Committees, meeting in London on May 19, a resolution of protest against the discontinuance of the use of heroin in the treatment of suitable cases was carried despite a statement by Dr. S. Wand (a member of the Medical Advisory Committee of the Central Health Services Council). DR. WAND said that the suggestion that the use of heroin should be discontinued had come before that Committee. He had gone to the Committee with the firm opinion that a general practitioner should not have taken from him a drug that he wanted to use. But he had learned that the problem of heroin addiction throughout the world and possibly in Britain was a grave one only to be solved by international action. From his own experience he could not but agree that there were adequate substitutes. Were medical men prepared to allow heroin addiction as a world problem to go unchallenged? He was persuaded by that

sort of argument not to oppose the prohibition of heroin. The Conference passed a resolution that called upon the Central Consultants' and Specialists' Committee to request consultants not to ask general practitioners to prescribe substances that general practitioners themselves were not allowed to prescribe as drugs on EC10's. A motion that the prescriptions of dispensing doctors should be submitted monthly for pricing and that accounts should be paid monthly was passed. One delegate said that in his area doctors had to wait five months for payment, whereas chemists had to wait only one month. A resolution of protest against a motion that the General Medical Services Committee should press the Ministry to make appliances more freely prescribable under the National Health Service was passed. A motion that, when a new drug was expensive, it should be placed on the specially expensive list for dispensing doctors at once, was lost. It was pointed out that each item added to the expensive drugs list was a charge on the central pool and that therefore the profession should have control of what went on the expensive drugs list.

A motion that in view of the Minister's statement that the provision of drugs for private patients was not repugnant in principle the Conference hoped that further consideration would be given to the matter with a view to its early implementation was passed.

DR. C. F. R. KILLICK (chairman, rural practices subcommittee) said that the representatives of the pharmaceutical industry had offered a 15 per cent. discount to dispensing doctors on all proprietary medicines. The Conference decided not to accept the offer.

CELLULOSE ACETATE PLASTICS

A manufacturer's exhibition in London

AN exhibition organised by British Celanese, Ltd., at the London headquarters of the company, Hanover Square, London, W.1, is being extended until June 24 to enable it to be seen by visitors prevented from travelling during the rail strike.

The exhibition shows the full range of the company's plastics; a wide variety of end-uses; and machines demonstrating the speed and simplicity with which the company's products can be heat-sealed, creased and beaded, vacuum-formed or made into continuous tubing. A section devoted to Cellastine sheeting shows articles made by the vacuum-forming process, including combs and heraldic shields.

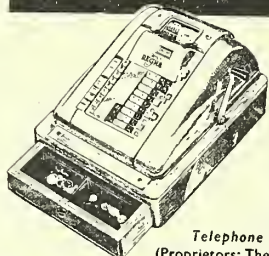
Cellastine acetate transparent wrapping film, known as the "breathing wrap," and specially formulated for the prepackaging of fresh foods, was shown in use on typical products. Cellastine is greaseproof, water-resistant and printable in multi-colours.

Clarifoil was shown reverse-printed in a multiplicity of colours, and laminated to paper, card, plastic film or

aluminium foil. The exhibit included a selection of shampoo sachets. Thicker-gauge Clarifoil rigid transparent boxes for cosmetics, toiletries, etc., were shown to have resistance to wrinkling and distortion. Two machines were in operation making Clarifoil into continuous tubing either by spiral winding or by straight-seaming.

The important uses of Celastoid sheeting in the construction of spectacle frames and in industrial safety were demonstrated. Spectacle frames were shown in plain colours, mottles, two-tone veneers and intricate mouldings. The safety exhibits included goggles, vizors and machine guards.

Shown for the first time was matt Clarifoil, in gauges 1/1000 in. to 10/1000 in. This form of Clarifoil makes an ideal erasable writing surface. The thinner gauges are suitable for laminating to maps, drawing books, educational matter, etc. The thicker gauges are recommended for filing systems and index strip. Matt Clarifoil is supplied on rolls 22 in. wide or slit to width.

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

The Old Folks Adrift

WITH almost indecent haste the Council of the Pharmaceutical Society turned down (p. 669), as we predicted, the proposal to set up a home for aged pharmacists immediately its principal protagonist, Mr. E. A. Brocklehurst, gave way to his successor as president.

It is true that the referendum of branches did not reveal the overwhelming support for the scheme, in the form it was presented to branches, that it would need to have to be successful. In the circumstances what was remarkable about the replies received was that the support, both as to capital and maintenance costs, should be so high. Among mainly business men accustomed to examine the profitability of a project that can only bespeak a high degree of sympathy for elderly colleagues and a readiness to exercise it even at the sacrifice of some financial efficiency. That is a point to be noted by the Council and by the National Pharmaceutical Union, which first mooted the scheme as a memorial to the late Mr. G. A. Mallinson.

For there can be no question but that the scheme as outlined was over-costly. Since it was put forward, the N.P.U. has been urged to spend the money it had proposed to provide in a way that seems to us a much more appropriate tribute to "G.A.M." Whether it adopts the suggestion put forward at one of its regional conferences is, of course, entirely up to its Executive. Should it feel committed, however, to some scheme for providing for the old and lonely (but not necessarily poor) in pharmacy, it would seem that the best way would be through individual benevolence in appropriate cases, which would not involve the expensive incubus of a building and wage costs. Possibly it could still act jointly with the Society through the Benevolent Fund.

One thing certain is that the problem of old age in pharmacy will become steadily more acute for years to come. The old people's home the Council has rejected could have become an uncontrollable expense, and the right and attainable way of dealing with the problem will certainly prove, we believe, to be on the lines of individual and specific assistance such as the Benevolent Fund now gives in cases of distress not resulting from old age.

A Ban that Should be Lifted

THE Minister of Health's apology—that was what it was—for his part in the ban on the manufacture of heroin (see p. 660) was, to say the least, unconvincing.

First he quoted the deletion of the monograph on the drug from the 1953 British Pharmacopœia. But deletion from the B.P. has not the finality of a ban on manufacture. Secondly he quoted the Standing Medical Advisory Committee's advice to him that suitable alternatives to heroin existed. But that is not the unanimous view of all the experts. (That the Advisory Committee includes in its membership the chairman of the council of the British Medical Association, the body that now constitutes the main opposition to the ban is an odd circumstance. But it serves to emphasise how members of committees, presented with plausible arguments, often fail until later to realise all the implications of a decision or the strength of opposite arguments not perhaps put.) Finally the Minister said that the Government had to weigh the argument of people who believed that—for a limited range of afflictions—no true substitute for heroin existed, against the larger claim of playing its part in combating a substantial social evil all over the world. Although, he said, there might be little evidence of addiction in Britain, it was entirely desirable that, if international agreement could be obtained, the manufacture of the drug should be prohibited everywhere.

The Minister was careful not to explain how the prohibition on manufacture in Britain would affect the international situation. It is hard to believe that a ban on exportation of the drug would not adequately discharge the country's international responsibilities in the matter.

The Minister of Health may, perhaps, on a Departmental view of things, be excused for not realising just how efficient are the British Dangerous Drugs laws. But that cannot apply to the Home Secretary, who has promised to receive a deputation from the B.M.A. It is to be hoped that he may be persuaded that a less severe measure than a virtually complete ban on manufacture is called for.

If the Health Minister's argument were followed to its logical conclusion we should end up with a ban on the manufacture of all Dangerous Drugs. However tidy that might be internationally, it would be disastrous medically.

Tidier Taxation?

FOUR and a half years after it was established by the Government in office at that time, the Royal Commission on the Taxation of Profits and Income issued on June 8 its final report (see p. 655). Two interim reports were published in 1953 and 1954. The Commission took evidence from over 400 persons and representative bodies and considered 120 memoranda from the Board of Inland Revenue. It will surprise no one that it finds the present system of taxation, which has not been reviewed for the past thirty-five years, "complicated and elaborate." Being composed of men with varying political outlooks, the Commission was not expected to reach unanimous conclusions on all points. Nevertheless there appears to have been a good deal of common ground. All members support some extension of the earned income relief beyond the present limit of £2,025 a year and wish to see the benefits of tax-privileged pension schemes extended to self-employed professional men. On the taxation of companies, the view of the majority is that the whole of the profits should be subject to income tax and that a profits tax should

be added at a flat rate. The minority believe that a flat-rate corporation profits tax should apply and nothing else and that subsequently income tax should apply to dividends received by the shareholder. Of particular interest at the moment are proposals for exempting a certain category of companies from British tax on the grounds that they are "overseas trading corporations." The effect of that proposal would be to secure the benefits at present obtainable by change of domicile without the need to transfer central management and control.

The enormous amount of detail which the report contains will provide the economists and accountants something to talk about for several months to come—and the Government something to legislate upon for the next five years.

Onward from Galen

A CURRENT CAUSERIE

If leeches have become a comparative rarity in medicine in Britain, they are still sufficiently in use in France to warrant a full-page two-colour advertisement in the May 1955 issue of *La Libre Pharmacie*, organ of the *Comité National des Pharmaciens*. The leeches advertised are, if not actually branded—that might be difficult—at least distinguished by their place of origin, Brières, whose "parks of hirudiniculture," illustrated under the title "today," are contrasted with a more decorative "leech basin" (looking in the photograph rather like a floral clock) of "other times." The Brières leeches are "lively, healthy, selected," and if one dies within a month of receipt it is replaced. To avoid risk that the leeches, though live, may become dead stock, the pharmacist may obtain free for the asking a handsome circular transparency bearing the legend "Leeches from Brière on sale here" and an illustration of leeches intertwined in a design reminiscent of the serpents of the traditional caduceus. Since the *Comité* in whose journal the advertisement appears is a "professional movement of pharmaceutical resistance and rebirth" one is tempted to wonder whether the leech is staging a general comeback.



SEVERAL representatives of pharmacy were present at the 150th anniversary dinner of the Royal Society of Medicine held in London on June 7. They included Sir Harry Jephcott, Mr. John Hanbury, Mr. E. M. Hill and Mr. A. Duckworth (guests), and Dr. Kenneth Carter, Mr. E. W. Godding and Mr. T. D. Whittet (Fellows). Others closely connected with pharmacy included Dr. Alexander Fleck (chairman, Imperial Chemical Industries, Ltd.), and Professor G. A. H. Buttle (school of pharmacy, London University). The principal guest was the Duke of Edinburgh to whom the president (Sir William Gilliatt, the Queen's obstetrician) presented a certificate of honorary fellowship of the Society and the first copy of a commemorative history of the Society. His Royal Highness proposed the toast "The Royal Society of Medicine." He said that, whereas we now think of Bannister's four-minute mile, at the time of Liston they thought of the "thirty-second operation," the skill of a surgeon being judged by the speed with which he could remove a limb. Recalling that then there were no anaesthetics, anti-septics or antibiotics, the Duke went on to say how he had been impressed by the large array of new drugs at the Pharmaceutical Society's reception the previous week. The response to this toast was given by Sir Francis Walshe, who paid a warm tribute to pharmaceutical industry for its help in the production of new drugs and for financial support for the Society. He referred to "the munificent gift of the Wellcome Foundation" which had made possible the recent extensions to the Society's library. Sir Arthur Porritt, who proposed "The Guests," also expressed appreciation of the

contributions of pharmacy and the pharmaceutical industry to the advance of medical knowledge. He said how pleased the Society was to have as its guests both the president and the Secretary of the Association of British Pharmaceutical Industry.



WITH the death recently at Hay, Herefords, of Mr. John Hird, a link with the classic murder trial of Major H. R. Armstrong was broken. Mr. Hird was an assistant dispenser to the late Mr. Fred Davies, who had a chemist's business in High Town, Hay. As such he was a prominent witness in the Armstrong trial, which took place at Hay in January 1922, and later, in April, at the Hereford assize court. Both arsenic and weedkiller figured conspicuously in the trial, and both had been purchased from Mr. Davies, who was also the father-in-law of Major Armstrong's partner, Mr. Oswald Martin, to whom Armstrong was alleged to have given poison. Purchases of arsenic were handed to Armstrong by Mr. Hird, who testified to that effect in court.

BRITISH FINE CHEMICALS AND THEIR USES

36. MERCURIC NITRATE

FEW fine chemicals acquired in earlier years such a glowing aura of reputed medicinal virtues as mercuric nitrate. It was described as a "noble" medicine which cured all sores, consumptions, gouts, etc., and drove many other diseases out of the human body. Today, solutions of mercuric nitrate are used to only a limited degree as a caustic, etc., but the compound is, however, used in the production of a large number of other medicinal preparations.

Mercuric nitrate is obtained by dissolving mercury in hot nitric acid (if the cold dilute acid is used mercurous nitrate is produced). Industrially, the salt is employed in felt manufacture, in the production of fulminate of mercury, in the making of other detonators, and as the basis of the sulphocyanide for use in preparing firework compositions. It is important in various laboratory activities. Specially prepared solutions of mercuric nitrate are obtained by dissolving mercuric oxide in nitric acid, and evaporating to a syrupy consistency, diluting, and dissolving in a few drops of the dilute acid any basic salt that separates. The resulting solution is then used for the quantitative estimation of urea. When 77.2 gm. of pure mercuric oxide are made up to a litre in that way, 10 c.c. of the solution is equivalent to 0.1 gm. of urea. For the detection and estimation of vanillin, another prepared acid solution of mercuric nitrate is used, which gives with even minute quantities of vanillin a characteristic violet coloration.

Other acid solutions of mercuric nitrate are used for precipitating casein from milk as a preliminary to determining its sugar content by the polariscope; and for testing the gelatin content of milk. What is known as Millon's reagent is simply a further prepared mercuric nitrate solution used for detecting albuminous substances. On heating, it produces a brick-red colour. Mercuric nitrate has also been the subject of much research in connection with acetylene, acetaldehyde, and ethyl aceto-acetate. It forms a convenient medium for getting mercury directly into solution for conversion to numerous other salts of the metal. It is used in conjunction with nitrates of other metals for producing electro-deposit amalgams which otherwise could not be obtained direct, and is likewise used for depositing some of the rarer metals. The associated mercurous salt, obtained by dissolving mercury in cold nitric acid, is used for testing tungstates and molybdates, and as a test for easily oxidisable substances such as formic acid. Mercuric nitrate is generally pure, should leave no residue on ignition, nor give any reaction for sulphates or chlorides, and should dissolve in water to give a clear solution. On the other hand the mercurous salt, though correspondingly pure, almost invariably contains minute amounts of mercuric nitrate. (Mercurous nitrate has been utilised as a reagent for recovering vanadium, molybdenum and titanium from residual materials.) In certain electro-plating processes, solutions of mercuric nitrate with cyanides and other compounds are used to give a preliminary dip to metals that are to be plated.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

OLD PEOPLE'S HOME SCHEME ABANDONED

Opinions of the branches unfavourable

THE Council of the Pharmaceutical Society at its meeting in London on June 7 decided that the difficulties in the way of providing a home for retired pharmacists were too great, but that if circumstances changed in the future the question might be re-opened. Among replies that ninety-five branches sent to the Society's inquiry about how much financial support would be forthcoming for (a) the capital cost and (b) the maintenance of such a home, nineteen branches replied "Yes" and fifty-four "No" to each question; one replied "Yes" to the first and "No" to the second; and another replied "Yes" to the first but did not reply to the second. The consensus of opinion being unfavourable to a scheme on the lines proposed, it was decided to inform the National Pharmaceutical Union with regret that the Society was not in a position to accept the Union's offer of funds as a memorial to the late Mr. G. A. Mallinson. MR. T. REID paid a tribute to Mr. E. A. Brocklehurst for all he had done to bring about the foundation of a home, and expressed regret that the project had not proved to be practicable at present.

Re-elected Members

THE CHAIRMAN (Mr. Brocklehurst) welcomed on their return to the Council table the six members recently re-elected. He spoke of the Council's appreciation of the work done during the previous ten years by Miss M. C. Islip, the member who had not been returned. They knew her as a steady worker for pharmacy, and one who had shown great purpose and sincerity in everything that she did. He welcomed Mr. Mitchell Jackson, the new member.

Mr. Jackson, he said, had worked in employee organisation and had been an active representative of the Leeds Branch of the Society, of which he had been chairman. MR. JACKSON said that he would do his best to fulfil the responsibilities of membership of the Council and to justify the confidence placed in him.

The Council unanimously approved the election of Mr. H. Steinman as *President* of the Society for 1955-56 (see *C. & D.*, June 11, p. 629) and THE CHAIRMAN invested him with the chain of office (see p. 665), congratulating him on his election and wishing him "a very happy term in this highest office in pharmacy." On taking the chair, MR. STEINMAN said that twelve months previously, when he had been elected vice-president, he had referred to the occasion as one when his heart wanted to speak but his head urged caution. He could only repeat that comment now with even more emphasis, for he had no words that would adequately convey his thanks. He was proud of the honour conferred upon him, and certain that his fellow members in the Manchester and Salford district would think that they too were honoured. He was conscious of the high standard set by previous presidents, and hoped he could count on the generous support of members of Council, and on the help and guidance that had been given to the president in the past by the secretariat and staff. It would be the wish of the Council to place on record their indebtedness to Mr. Brocklehurst for his services to the Council and to pharmacy, both at home and abroad, during the previous twelve months. Those services had culminated in the reception held to commemorate the new constitution of the Society (*C. & D.*, May 28, p. 577).

THE PRESIDENT then presented Mr. Brocklehurst with the past-president's badge, "in the full knowledge that it had been well earned." MR. BROCKLEHURST, in his acknowledgement, said that the Council knew the experience that Mr. Steinman had had in pharmaceutical affairs, and had no doubt on the way in which he would uphold the high

office he had assumed.

A motion that Mr. Granville Shaw should be elected *Vice-president* was carried unanimously. After congratulations by the president on his election, MR. SHAW said that he would do his best to make the president's year happy and successful.

A motion that Mr. W. S. Howells should be re-elected *Treasurer* was approved. MR. F. G. WELLS said it would be Mr. Howell's ninth year in that office—an achievement rarely equalled or exceeded in the Society's history. Sir Hugh Linstead and Mr. F. W. Adams were formally re-appointed *Secretaries*.

The Council expressed its congratulations to Sir Hugh Linstead on his re-election as a Member of Parliament, and decided to send a letter to Sir Wavell Wakefield conveying similar congratulations to him.

MR. BROCKLEHURST reported the signing of letters conveying the greetings and good wishes of the Council to 1,150 members of the Society who had passed the fiftieth anniversary of their registration. Many replies had already been received expressing appreciation of the Council's action. The thanks of the Council were due to Mr. Heseltine, from whom the suggestion emanated. In future every member who reached the fiftieth anniversary of his registration as a pharmacist would receive a letter from the president.

The Council resolved to send a telegram of greetings and good wishes to Sir Henry Dale, O.M., G.B.E., on the occasion of his eightieth birthday on June 9.

A resolution to convey the cordial thanks of the Society to the Royal Institute of British Architects for their hospitality on May 23 was approved and it was resolved to send a letter to the Association of British Pharmaceutical Industry expressing appreciation and thanks for their assistance in arranging the exhibition. MR. BROCKLEHURST reported that the Society had received a message of congratulation from the Faculty of Pharmacy, University of Paris, and a gift of two prints from the *Ordre National des Pharmaciens de France* as a memento of the occasion. It was resolved to thank the French authorities.

I.P.F. Assembly

The progress of arrangements for the general assembly of the International Pharmaceutical Federation in London in September was reported by MR. D. W. HUDSON (chairman of the organising committee). Applications already totalled 450, and the maximum that could be accepted would probably be reached some time before the date of the meetings. Visitors from twenty-seven countries had already registered. Meetings of the university (scientific) section would take the form of symposia on recent advances in particular branches of pharmaceutical knowledge. Means to admit visitors from other scientific circles were being sought. Social events during the week would include a visit to the Royal Festival Hall on September 21 for a performance of the Magic Flute by the Stuttgart Opera Company, and arrangements were being made for delegates to visit pharmaceutical manufacturers in the London area. Forty meetings were being held at the University Senate House, at Friends House, and at the Society's headquarters, and there would be a simultaneous translation service at the opening and closing assemblies and meetings of the university (science) section. Interpreters for seven languages would be available at the Senate House.

Resolutions on educational matters passed at the Branch Representatives' meeting, in May, were noted by the Education Committee. It was reported that the questions of post-graduate diplomas and the forensic pharmacy exam-

ination of pharmacy degree students would be considered by the educational policy subcommittee. An inquiry had already been sent to persons registered as students and it was intended to send a similar communication annually. The Education Committee's view on the number of places it was desirable to provide for pharmacy students in Wales had been communicated to the education officer for Cardiff. The Committee asked for a scheme to be submitted to provide for a panel of persons in England and Wales competent to address schools on pharmacy as a career. A letter was received from the chief education officer of Birmingham inviting the Society to nominate a representative for a further term on the pharmacy classes advisory committee of that city, and proposing that the appointment in future should be for three years. The Council approved that Mr. L. H. Teare, Smethwick, should be invited to accept renomination. On the Committee's recommendation the Council approved that the Petrie Trust Bursary for 1955, with a copy of the British Pharmaceutical Codex, should be awarded to Ronald Sinclair McPherson, School House, Tarves, Aberdeens. Approval was given to the Birmingham College of Technology for providing instruction for the Pharmaceutical Chemist Qualifying examination for five years from July 1955. The possible effect on the forthcoming examinations of a continuance of the railway strike was considered, and the registrar was authorised to make any arrangements necessary to meet the emergency.

Benevolent Fund

The Benevolent Fund and War Aid Committee's report showed that grants amounting to £132 had been made to three widows and one member. The Council approved recommendations for grants amounting to £487 to five other applicants. Authority was given for special assistance amounting to £105 in five cases, and for continuing a contingent grant of £5 weekly to one beneficiary. One application was deferred, and in two other cases no grant was made. From the War Aid Fund grants amounting to £283 were made to two applicants. THE SECRETARY reported receipt of a donation of £70 for the Benevolent Fund from Mr. P. W. E. Atkinson.

The report of the Birdsgrove House warden stated that, in the month to May 16, fifty-four guests had stayed at the home for an aggregate of seventy-seven weeks, against forty-four guests and fifty-five weeks in the same period of 1954.

MR. T. HESELTINE said that he had been asked to let members throughout the country know that the Council appreciated to the full the generous gifts that branches made each month to the various benevolent funds of the Society. He assured donors that those gifts were warmly welcomed, and the best possible use made of them.

THE PRESIDENT said that a member (Mr. T. Ashworth, Liverpool) had written stating that he had completed fifty years in pharmacy, and could safely say that he had no regrets at his choice of vocation. He enclosed a cheque for £100 for the Society's Benevolent Fund.

THE CURATOR of the Society's Museum stated that, at a conversazione of the Institute of Biology, on May 26, exhibits entitled: "Culinary Herbs and their Adulterants," and "The Foxglove in Medicine" had been presented by Mr. T. E. Wallis and himself. The museum's experimental grounds at Birdsgrove House had been visited on May 27 by members of the Evans Scientific Society.

The Organisation Committee began consideration of the Branch Representatives' resolution calling for the payment of an additional overall grant in respect of each Branch meeting held. At a meeting attended by Messrs. J. C. Bloomfield and Highfield in May, it had been decided to revive the Chichester and Bognor Regis Branch of the Society; officers had been appointed. The Council approved the Committee's recommendation that, as the proposed scheme for an annual award of the Codex to Branches

(see *C. & D.*, January 15, p. 63) had not received sufficient support to justify its general application, branches should be informed that the Committee would consider for approval any prize competition scheme submitted by a branch provided that, for the scheme to qualify for a Codex prize, not fewer than five students should participate in each instance.

The report of a meeting of the History of Pharmacy Committee revealed that sixty-seven Branches of the Society had appointed a correspondent to notify the Committee of items of historical interest in the branch area. A recommendation to grant permission for a meeting of the Branch correspondents to be held in October was approved. The chairman, on behalf of the Committee, had sent a letter of good wishes to the newly formed Canadian Academy of the History of Pharmacy, and had suggested an interchange of information. It was decided to prepare a record of national societies for the study of the history of pharmacy.

Membership

It was reported that thirty-three persons had been registered as students in May, making 227 for the year, against 210 at the same date in 1954. The Council agreed to add to the register the names of eleven pharmacists who had applied for registration under reciprocity arrangements, and a further name on submission of the required documents. It was agreed to restore the names of nine pharmacists removed from the register. The Council received from the Law Committee a list of 315 persons who had not paid their personal retention fees for the current year, and it was agreed to remove those names from the register, together with those of seventy-four pharmacists who had indicated their intention to retire from membership. Instructions were given for the removal from the register of premises of 142 addresses in respect of which retention fees had not been paid.

It was reported that the Society's inspectors and agents had visited in April, 1,163 authorised sellers, 197 listed sellers, and 434 drug-store proprietors and similar traders. Six cases of alleged infringements of the Pharmacy Acts were considered and appropriate action taken.

Annual meeting

THE annual meeting of the Pharmaceutical Society of Great Britain began formally at noon on May 18, and was, in accordance with traditional practice, adjourned after the appointment of scrutineers of the ballot.

At the resumed session in the evening, THE PRESIDENT (MR. ERIC A. BROCKLEHURST) announced the results of the ballot for seven members of Council (*C. & D.*, May 21, p. 549) and declared the honorary auditors re-elected without contest. He welcomed the new member, Mr. Mitchell Jackson, and spoke with high appreciation of the work of Miss M. C. Islip during her many years as a member of Council. After he had thanked the scrutineers he called on one of their number, acting in the absence of their chairman to make a few remarks by way of report to members. The speaker mentioned that the number of votes cast was exactly five more than in 1954, though less in percentage of possible votes. He congratulated Mr. W. J. Tristram on having polled a record number of votes for any Council member in any election, amounting to over 70 per cent. of the votes cast.

Moving adoption of the annual report and financial statement, THE PRESIDENT added a few comments. He said that, while some consequences of the new constitution had become apparent, the opportunities created by it for development within the Society had, in the main, still to be realised. Its effect would be progressive.

The provisions relating to the fellowship of the Society conferred many fellowships automatically, but a number of cases had to be considered separately. A few were outstanding, but conferment of the fellowship to mark the

distinction that formerly existed between pharmaceutical chemists and chemists and druggists had in the main been accomplished. The conditions under which the fellowship would be awarded for the future were still not complete.

Register Expands

Those who followed closely the recruitment figures and were concerned about the future, said MR. BROCKLEHURST, would welcome the evidence of continued increase in the annual registration of students. The increase in the register of pharmacists maintained approximately the level of increases that had occurred in recent years and had made some contribution to easing the man-power situation. At the present rate of expansion the register in 1956, if it did not exceed the highest figure recorded (15,381 in 1939), would be not far short of it.

"During my year of office I have had special opportunities of finding out at first hand about the state of branches of the Society. . . I should like to stress the importance of extending the contacts of a branch in its local community as widely as possible, of drawing into association with it in one way or another representatives of the life of the district and in that way both to give and to receive benefit."

The section of the annual report dealing with public services, said Mr. Brocklehurst, illustrated the large extent to which pharmacy was becoming a feature in the public services, and the growing importance of the work of the Society in that connection. Though not represented on the Whitley Council, the Society was by no means inactive in doing what it could to bring about improvements in the conditions of service of hospital pharmacists. The reference in the annual report to the transfer of the school of pharmacy to Brunswick Square could now be supplemented. The first stage had been completed as forecast. The Council warmly congratulated the school upon the advantages that would result. The prospect for the Society of regaining progressively more accommodation was most welcome, even though it was not the ultimate solution to the Society's accommodation problem. The national library scheme now approved as part of the County of London development plan, included the west side of Bloomsbury Square, on which the Society's House is situated. The search for a new headquarters site or existing building had gone on for a number of years, and the problem had been more complicated by that development.

On the financial side the main feature of the year had been the effect of the increased personal retention fee. That increase when introduced had not been regarded by the Council as sufficient to allow the Society to provide adequately for the future, though it would get the Society out of its immediate difficulties and permit some development of activities.

Professional Conduct

On the subject of professional conduct the use of signs by pharmacists called for a pronouncement by the Council at the earliest opportunity. The fact that such a pronouncement had not been made earlier was not due to any delay on the part of the Council. The establishment of two committees to deal with veterinary matters was further evidence of the interest the Council are taking in that field of work.

Mr. Brocklehurst concluded with a reference to the sixteenth general assembly of the International Pharmaceutical Federation to be held in London in September. The occasion was the first time on which an international pharmaceutical conference on a scale commensurate with the importance of pharmacy had been held in this country, and it was the desire and intention of the Council that the occasion should be celebrated in a worthy manner.

After the president's motion had been formally seconded by the vice-president (MR. H. STEINMAN), MR. C. E. TURNER, Stoke-on-Trent, expressed surprise that the number of

entrants into pharmacy was increasing, and asked whether the figure could be broken down to give the number of apprentices in retail pharmacy. He was told that the figure was not available. MR. D. J. GIBSON asked when information on the conditions of award of fellowships would be made known and was told that a committee was still considering the matter. MISS M. H. PERKINS, Leicester, was told that the inclusion of substances in the British Veterinary Codex would not affect their chances of supply through chemists. MR. W. F. WILKINSON, London, offered some criticism of the Council for not securing the inclusion of methyl pentynol in the Poisons List, and MR. T. A. DURKIN, Blackpool, for not providing more, better and promptly dispatched propaganda material for careers exhibitions and other efforts to attract entrants to pharmacy. MR. E. J. WHITE, Westerham, aired some personal grievances about the way in which disciplinary action was being taken under the "code of ethics," but whether from the prolixity of his remarks or from lack of sympathy with his point of view, he had rather an impatient hearing from the meeting.

The report and financial statement were duly carried.

General Fund Summary for 1954

	EXPENDITURE		INCOME	
	1954	1953	1954	1953
EDUCATION	£	£	£	£
Examinations	19,528	17,443	21,083	22,567
Library	5,502	3,780	—	—
Museum	4,990	5,389	—	—
Pharmaceutical Trust ...	13,636	14,286	13,636	14,286
Miscellaneous	12,743	9,534	—	—
	56,399	50,432	34,719	36,853
LAW				
Law Department	25,099	22,718	4,346	3,903
ORGANISATION				
Organisation	12,310	10,957	—	—
PUBLICATIONS				
Pharmaceutical Journal ...	10,859	—	—	4,667
Journal of Pharmacy and				
Pharmacology	8,303	7,498	6,561	6,062
B.P. Codex	21,808	7,965	43,716	4,496
Extra Pharmacopœia	9,247	7,180	6,434	12,437
British Veterinary Codex ...	3,910	5,564	7,763	1,894
Other Publications	11,842	13,696	14,032	15,694
	65,969	41,903	78,506	45,250
SCOTTISH DEPARTMENT	8,283	9,060	86	150
HEADQUARTERS	48,972	49,304	138,351	100,903
MISCELLANEOUS				
Superannuation	9,725	6,554	—	—
Pensions	466	466	—	—
Subscriptions to other bodies	390	286	—	—
Sundries	2,353	1,324	—	—
	12,934	8,630	—	—
PREMISES	—	—	11,109	11,197
PARLIAMENTARY	—	—	540	575
CONFERENCE				
Entertainments Fund	—	—	54	54
BENEVOLENCE				
Benevolent Fund—General ...	11,515	12,465	14,553	12,641
—War Aid	1,110	1,521	375	375
Birdsgrove House Fund	5,318	5,118	5,253	6,378
Hills Orphan Fund	—	—	292	254
Orphan Fund	266	157	1,496	1,589
Pharmaceutical Flood Relief				
Fund	1,323	8,287	3	12,616
Emergency Fund	500	—	46	—
	20,032	27,548	22,018	33,853
	249,998	220,552	289,729	232,738

Surpluses were shown on examinations (£1,555); the British Pharmaceutical Codex (£21,908); British Veterinary Codex (£3,853); headquarters fund (£81,182); and Benevolent Fund (general) (£3,038). Deficits were shown on the library (£5,502); museum (£4,990); Law Department (£20,753); organisation (£12,310); *Pharmaceutical Journal* (£10,859); *Journal of Pharmacy and Pharmacology* (£1,742); *Extra Pharmacopœia* (£2,813), etc.

TOPICAL NOTES FOR THE AGRICULTURAL CHEMIST

BY STOCKMAN

WEEDES have been defined as plants growing in the wrong place, and last year about 2½ million acres were sprayed with chemicals in order to remove or suppress some of the unwanted plants. The number of farmer-owned spraying machines (30,000 in 1954) has now considerably increased, for 1955 has been a record year for spraying-machinery sales, and the retail sale of selective weed-killers to farmers is certain to approach the £2 millions mark. With the exception of one enterprising multiple firm, few pharmacies are taking advantage of the new and rapidly expanding market in the sale of these chemicals. Will we be complaining, in five or ten years' time, that agricultural chemists are not getting a fair deal from manufacturers, and that the law refuses to recognise our special suitability for handling the more toxic products? Many pharmacists bemoan that dispensing has been reduced to re-labelling, and that counter trade is becoming divorced from chemistry. Here is the opportunity for rural chemists to take advantage of their training and knowledge in the fascinating sphere of chemical weed control.

Selective Herbicides

The recent introduction (as Tropotox, May & Baker, Ltd.) of the butyric homologue of MCPA (4-chloro-2-methylphenoxyacetic acid) is the result of work by Professor R. L. Wain of Wye Agricultural College, reported at the Weed Control Conference in November 1954. Investigation into the action of the "hormone"-type weed-killers established the existence of a β -oxidation enzyme system in plants. The oxidation causes a splitting of the aliphatic side-chain of certain MCPA homologues by two CH_2 groups at a time, thus giving rise to phenols or acetic acid derivatives, according to whether the side chain contained an odd or an even number of carbon atoms. The non-toxic compound 4-chloro-2-methyl-phenoxybutyric acid (MCPB) is thus converted into the highly active growth-regulating substance 4-chloro-2-methyl-phenoxyacetic acid. The significant point is that certain clovers appear to lack the enzyme system needed to carry out that degradation and are thus safe from the herbicidal effects: many weeds commit suicide, as it were, by carrying out the oxidation.

Results personally noted so far suggest that MCPB is safe not only on clover but on lucerne as well; that it provides good control of curled dock and thistle, is somewhat slow-acting on charlock, and ineffective against wild radish (runch). Willow weed (redshank) appears, somewhat surprisingly, to respond to it better than it does to MCPA. To many it may come as a disappointment that MCPB is not active against the brassica type of weeds, but that may open up further possibilities in connection with weed control in cabbage, kale, turnips, etc.

The new development does not affect the established practices of weed control in cereals, but increases the range of the "hormone" weed killers. It seems safe to assume that, by 1956, a number of phenoxybutyric acid weedicides will have been introduced to the agricultural market, and it is known that the investigation of 2,4-DCPB and 2,4,5-TCPB, the butyric homologues of 2,4-D (2,4-dichlorophenoxyacetic acid) and 2,4,5-T (2,4,5-trichlorophenoxyacetic acid) is well under way.

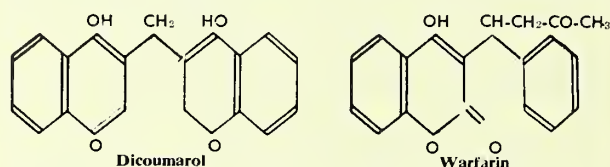
Although not new as a chemical, pentachlorophenol is coming into prominence as a pre-emergent weed killer for root crops. It is a quick-acting non-persistent defoliant for the control of annual weeds, and the technique is to prepare the seed-bed, delay sowing until the weeds are germinating, and apply the spray shortly before the

crop emerges. The compound is available in the form of a miscible oil solution (strength not stated) called Sprex (Shell Chemicals, Ltd.), and the material cost per acre is 37s. 6d. to 62s. 6d. according to the type of weed to be controlled. The paper on the subject of PCP read at the second Weed Control Conference led to an argument on its value compared with another weed-killer, dinitro-*o*-cresol, for the purpose of killing slugs. The Americans, however, can beat that with a new substituted urea herbicide (CMU), for it is claimed for Du Pont's Karmex that it kills weeds and grass and "also helps you get rid of insect pests and rats." Further developments are awaited with baited breath.

Other Rodenticides

Warfarin is, however, the most commonly used rat-killer, and not without reason. Although not much good as a sales point, it is worth bearing in mind that warfarin is less likely to cause suffering than ANTU or zinc phosphide, which in turn are recommended as more humane than red squill, arsenic, phosphorus or barium carbonate. In terms of toxicity, the fluoracetates probably lead, with warfarin second and followed by ANTU, thallium sulphate, zinc phosphide, arsenious oxide and red squill, in that order. Warfarin also has advantages for the ease with which the relatively inexperienced operator can use it, and for its wide margin of safety so far as humans and domestic animals are concerned.

The name warfarin was coined in the U.S.A. and is derived from the Wisconsin Alumni Research Foundation, where it was discovered; the idea of using blood anti-coagulants for rat control is, however, British, for Dr. O'Connor (of Ward, Blenkinsop & Co., Ltd.) was the first in this field with a report on dicoumarol.



Unlike dicoumarol, warfarin is readily accepted by rats. There is a divergence of opinion as to the optimum strength of the bait for control of the Norwegian rat (the common brown rat) which is the variety usually found about farms; the U.S. authorities recommend a concentration of 0.025 per cent., while the Ministry of Agriculture recommends baits one-fifth of that strength. It might be thought that the stronger bait would kill more quickly, with a saving in the oatmeal used as diluent, but in fact the product might be merely wasteful, for rats withstand single doses of 50 mgm. per kilo body weight, though 5 mgm. in divided doses over a period of five days proves lethal. Since rats have a feed consumption of about 1 oz. daily, they need take only half their ration in the form of the 0.005 per cent. warfarin bait to achieve a kill. However, mice, and also the ship's rat, require the stronger bait for efficient control, so the U.S. recommendation applies where the pests are assorted.

County Agricultural Executive Committees have, in the past, played a considerable part in rat clearance, through contract work for farmers. Those Committees are now changing over to a purely advisory rôle and it is therefore likely that the demand from farmers for rat poisons will increase at the end of the present year. That provides another opportunity for the agricultural chemist.

Agricultural Shows

At most of the important agricultural shows it is found that a firm of multiple chemists and a number of animal medicine manufacturers are exhibiting. Sometimes an enterprising local chemist also has a stand, and these comments are designed to provoke an exchange of views and tips in order to improve the lot of those hardy individuals.

Notes by two members of the East Midland province of the National Agricultural Advisory Service (reported in *Agriculture*) on their experience with a stand at a corn exchange are of some interest in this connection. A bold simple layout has been found best, and the use of "live" material advisable whenever possible. "Topical, eye-catching matter which will attract interest and stimulate, rather than demand, some mental effort has always proved the best." "All labels and notices are stencilled. It is most important to have a neat and attractive layout." In passing, it should be noted that they find "that merchants . . . exert a tremendous influence in their day-to-day contacts with farmers."

There are a number of other points which merit attention when preparing to push one's shop window into an agricultural show. It is hardly possible to have one's name distributed too frequently within, and without, one's stand. How often do farmers, seeing, say, a drum of sheep dip on a stand, assume that the glass of beer they have just demolished was provided by Coopers? Someone connected with the firm must always be in open view to the multitude, in order to tackle the diffident, and welcome the known customer; it is not enough to send out invitations beforehand, though that is an essential preliminary. Remember that the most wonderful display of the latest and best insecticides, medicines and weed killers will not attract half so much attention as useful-looking instruments or sensible mechanical gadgets. Incidentally, the perforated hardboard (known as peg-board), with chromium-plated hooks to fit, is ideal for displaying instruments, whether in shop or in tent, being light, versatile and easily fixed.

Many flashy caravan trailers are to be found at most

shows, and it is observed that they are patronised mainly by the townsmen, children and beer-scronglers. They look too inaccessible—and will they welcome your muddy boots on their chromium steps? Something on ground level, with two entrances (so that they can see a bolt-hole in case the salesman is too persistent) and with something eye-catching at the back to entice them in, is what serves best. A round table in front is a good plan so that the timid types can perambulate around it without feeling trapped. Prices may not matter much, but a little tag on each article displayed helps to allay suspicion. Don't pounce, like a pre-war car salesman, on each passing rustic, but give him the opportunity of making the first contact: only if he proves too reticent should he be tackled, and then in a friendly and tactful way. Only if you wish to attract thousands of shrieking school-children should you display loads of free leaflets, or one of those wonderful meaningless moving gadgets, the work of some lunatic genius, which are becoming so popular in the windows of insurance companies and wine shops. There was once an agricultural merchant who, in order to attract some attention to his stand, surrounded it with a remarkable model railway, and not a customer could even see, let alone approach, the pitch for the solid barricade of admiring juveniles.

It is distracting to have streams of people diving head-long into the mud about one's stand, so either dispense with guy-ropes by having a tubular steel and canvas or similar erection, or mark the line of pegs by drums of dip, etc., or whiten the ropes. Always assume that the weather will be foul, and remember that it is demoralising to have to retrieve one's banners, display screens, etc., from the judging rings. Everything must be fastened down as though at sea in a gale. And one last suggestion—before the show opens study the plan of the ground and memorise the position of all the stands; about half one's visitors will only be inquiring the way to another stand, and most of the others want only a free drink, or a rest, or to leave their coats and the kids. Will it be worth the trouble? Will it ever cover expenses? It is safe to predict that the chief reward will be the relief and pleasure with which everyone returns to the normal routine.

A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS?

I have taken over shop premises for the remaining period of an agreement of twenty-one years, with option to renew. Apart from the rental due under the agreement I have had to pay a premium for the lease. How is that charge dealt with by the income-tax authorities?

THE payment of a premium for the granting of a lease is a capital payment, and as such cannot be allowed as a deduction against profits, at least for the purposes of computing any income-tax assessment. The rental, or if it is greater, the net annual value of the premises may, however, be chargeable and in those circumstances, where a premium has been paid to a landlord it has been held that the Commissioners of Inland Revenue may increase the annual value by reference to that premium and also the interest on it. The ruling does not apply where the premium is paid to a tenant who transfers the lease, though the authorities are entitled, it is considered, to take such premium into account. Where the rent is well in excess of the net annual value there would, of course, be no further relief.

I should like to vote my wife a director of a company in which I hold all shares except one. According to the Articles of Association of the company she will need a share qualification. What is the best way to go about it?

THE company's articles of association should make provision for the appointment of an additional director, and the appointment should be made in accordance with the

articles. A share or shares may be issued from the company's unissued shares, and charged to the subscriber or his wife. Alternatively, if there are no such unissued shares, and it is not desired to increase the company's capital, a transfer may be prepared by which one or more shares are transferred to your wife. The transfer must be duly stamped at the Stamping Office according to value (two shillings for every £5 total value), and must be approved at a directors' meeting. Only ten shillings per cent. duty is payable on the capital of a company. Particulars of the appointment must be filed within fourteen days, and if shares are issued by the company a return of allotment must also be filed.

For some time I have been considering the pros and cons of a staff pension scheme. Could I form a trust fund, say in a building society? Would such a fund be subject to the same tax relief as an insurance company? Suppose I received 3 per cent. interest tax-free on money invested, would my scheme be less remunerative than if done through the usual assurance companies?

THE income derived from investments or deposits of a superannuation fund is exempt from income tax in certain circumstances, and the contributions by an employer to that fund are allowable as an expense, the employee's contributions being deductible from his salary for purposes of assessment to income tax. To qualify for the exemption the fund must be approved by the Commissioners of Inland Revenue, and application for approval must, before the end

of the year of assessment, be made in writing by the trustees to the Inspector of Taxes for the district from which the fund is to be run. With the application must be sent a copy of the trust deed that establishes the fund, and of the last accounts, if any, and two copies of the rules. The question of investing the contributions and income from a pension fund is a matter only of the provisions and restrictions of the trust deed adopted. If a scheme is arranged with an assurance company, that takes over the fund and assumes responsibility for paying pensions, etc., as they fall due.

My wife and I (both qualified) have between us been running my father's pharmacy during his illness, as well as our own business. We also use the car belonging to our own business for urgent collection of supplies and deliveries and, of course, I have to travel frequently back and forth between the two businesses, and much time is saved by the use of the car. We charge the price of 4 gall. per week to my father's business and that, near enough, meets the case, on the

average. Is there anything to be gained by way of tax if some charge were also to be made for our services?

A MANAGEMENT fee may be fairly charged to the father's pharmacy, and that would clearly avoid the application of P.A.Y.E., the fee being included in the business computation of the recipient. The matter of tax advantage is a question of the tax position and comparative rates of tax liability of each of the parties concerned. If the wife, too, is a partner in her husband's business, it should not be overlooked that the management fee incorporated in the total profit would be split accordingly in the partnership share and the wife's rate may well be at a reduced rate of tax, thus effecting some tax saving. If no fee is charged, in so far as the car has been used in the father's business, a proportion of the relevant running expenses and capital allowances will in all probability be disallowed. But a business arrangement under which a fee is payable creates another situation, as the car is used in the earning of the fee by the business.

SELLING PERFUME

4. The History of Perfume

PERFUME has been in the world since long before man began to record his actions by chipping pictures on stone.

Prehistoric man is believed to have made some use of aromatic gums and sweet-smelling flowers, but the first known recipe for a perfume is given in the book of Exodus, chapter xxx, verse 34:

"And the Lord said unto Moses, Take unto thee sweet spices, stacte and onycha, and galbanum; these sweet spices with pure frankincense: of each shall there be a like weight. And thou shalt make it a perfume, a confection after the art of the apothecary, tempered together, pure and holy. And thou shalt beat some of it very small . . . And as for the perfume which thou shalt make, ye shall not make to yourselves according to the composition thereof: it shall be unto thee holy for the Lord."

Probably the dried substances were first reduced to a fine powder and then mixed together and in that way prepared for burning as incense. Stacte means "a dropping" and is thought to be a variety of myrrh. Pliny states that it was a spontaneous liquid exudation of the myrrh tree—much more valuable than myrrh itself.

Myrrh

All the modern perfumes of today can be traced back to myrrh. The Ancient Egyptians discovered it and made it the fragrance of a perfume they used called Kyphi. They, however, used it for far from romantic purposes—they needed it for embalming and purifying their dead.

The Egyptians believed that scented substances could drive disease out of sick people. Today, of course, that cannot really be used as an unusual sales point, but many essential oils used in blending perfumes do contain compounds with antiseptic properties.

From the Egyptians the Ancient Greeks and the Romans learned how to make perfumes. They, in turn, taught the Arabs. It was the Arabs who discovered how to "distil" perfume from flowers—a process still in use today in perfume making. The Indians first used perfumed woods such as sandalwood in perfumes; the Hindus still burn perfumed oils as part of their marriage ceremony.

The Romans, when they invaded Britain, brought perfume with them. The conquerors, who built straight roads and wore the envied armour, bathed in rose water, sprinkled their clothes with it, and even drank rose wine. Perhaps the popularity of flower perfumes in this country today is a direct result of the Roman invasion! There is no doubt about it that flower perfumes are well suited to the British climate and in general to Anglo-Saxon skins and colouring, and any woman may be advised to wear them with the certainty that they will be right for her.

But the woman of the twentieth century is lucky. Had she been born in the eighteenth century when the practice of perfuming not only clothes but the body came into vogue, she would have got into trouble. For the fashion was carried to excess. Indeed, in 1770 a Bill was introduced into Parliament which read as follows:

"That all women, of whatever rank, profession or degree, whether virgins, maids or widows, that shall from and after such an Act, impose upon, seduce and betray into matrimony, any of his Majesty's subjects by the scents, paints, cosmetic washes, artificial teeth, false hair, Spanish wool (a wool impregnated with carmine used to colour the skin), iron stays, hoops, high-heeled shoes, and bolstered hips, shall incur the penalty of the law now in force against witchcraft and like misdemeanours, and that the marriage upon conviction shall be null and void."

Fortunately this Bill did not become law.

Modern perfumery has made tremendous advances. It is, of course, a direct descendant of the first perfumes made with a spirit instead of a solid base. Today perfumes are blends of essential oils, balsams and other plant extracts or fixatives. Pure alcohol is used to "marry" the varied ingredients—gathered from every corner of the world—into a perfect bouquet. It goes without saying that this blending is a highly skilled occupation and takes years of experience. Anyone who has tried to produce a satisfactory perfume knows just how difficult it is. The amount of spirit used must be minimal so as not to dilute the strength and lasting power of concentrated perfumes.

Toilet waters are next-of-kin to perfumes, the only difference being that the proportion of alcohol added to the essential oils is much larger. Colognes fall into two classes: the citrus Colognes and the perfumed ones.

Eau de Cologne began as *l'eau admirable* and was introduced at the end of the seventeenth century by an Italian called Paul Feminis doing business in Cologne. The new fragrance became famous; it was based primarily on Italian citrus oils, neroli, lemon, bergamot and some lavender. One hundred years later Jean Marie Farina, a descendant of Feminis, brought out a product under the name of eau de Cologne which was, in actual fact, *l'eau admirable*, with modifications and modernisations to the formula. It was so successful that every perfume house of that time copied the formula and called his products eau de Cologne, despite Farina's protests. They were within their rights. So Farina labelled his product with his own name: "the one and only Farina Cologne."

Women through the ages have adopted an infinite variety of fashions in attracting men. One way of enchanting them has remained constant: the use of scent. In all probability women will always continue to use perfume and therein lies a perfumery assistant's opportunity to increase sales.

"Oh —
and I also need..."

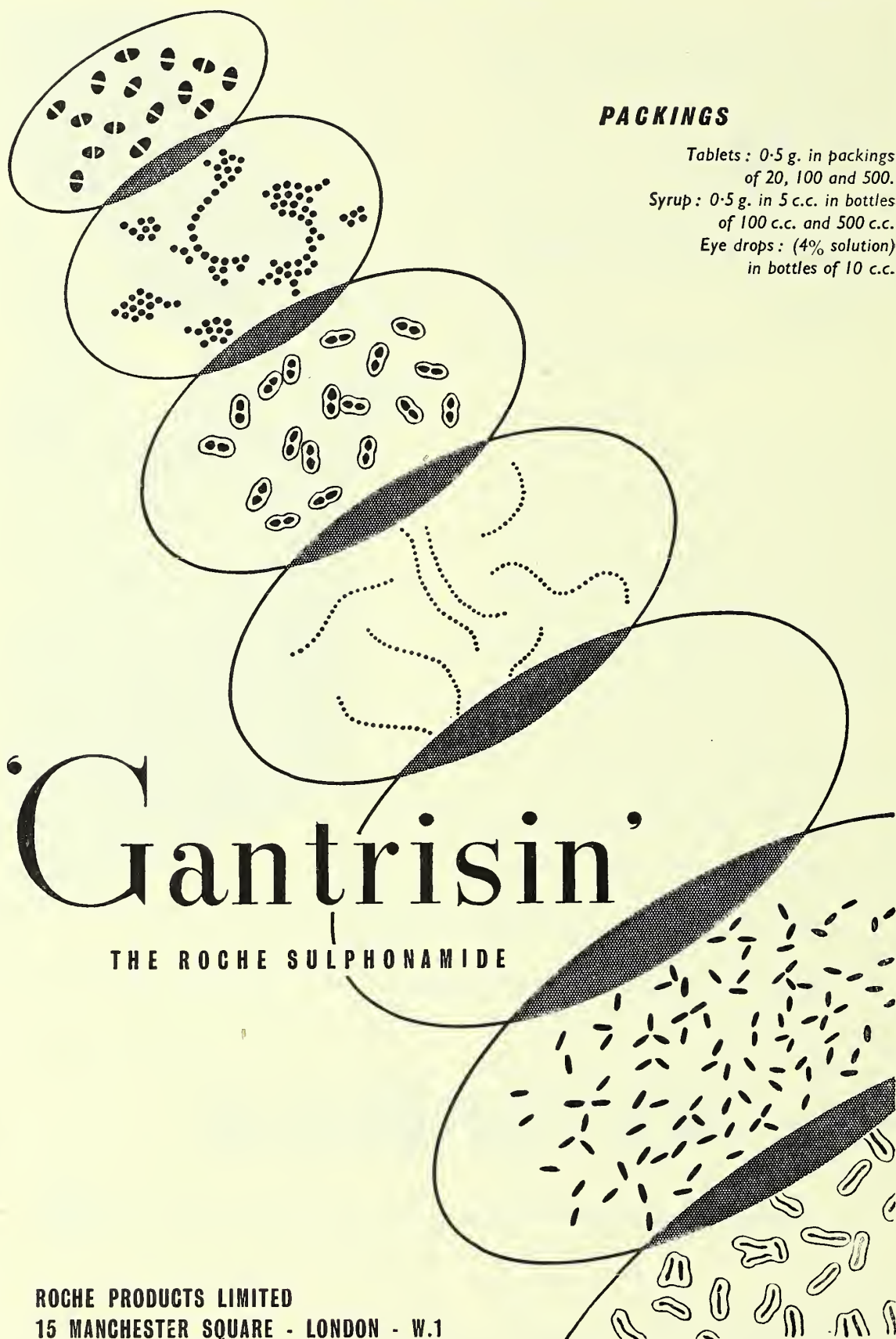
It's that profitable afterthought again. She comes in every few days for her tin of Ostermilk, looks around, and more often than not sees something else she needs. There aren't so many lines that make a customer call every four or five days ... and the way they *insist* on Ostermilk in this competitive world says a lot for its quality.



OSTERMILK

brings in the **REGULAR** customer — and the business with her





PACKINGS

Tablets: 0.5 g. in packings of 20, 100 and 500.

Syrup: 0.5 g. in 5 c.c. in bottles of 100 c.c. and 500 c.c.

Eye drops: (4% solution) in bottles of 10 c.c.

Gantrisin

THE ROCHE SULPHONAMIDE

ROCHE PRODUCTS LIMITED
15 MANCHESTER SQUARE - LONDON - W.1

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 15: With the continuation of the rail and dock strikes into their third and fourth weeks respectively the markets were again handicapped, particularly on the export side. Production of PHARMACEUTICAL CHEMICALS had not been affected to any great extent when the rail strike terminated on June 15.

A statement issued by the Federation of British Industries on June 13 said that, of the two strikes, that of the dockers was the "more immediately serious," an opinion certainly shared by dealers in the markets covered in this report and it is hoped that this strike too will soon be terminated to avoid further damage to the country's export trade.

Few important price alterations occurred in CRUDE DRUGS, many of which are becoming increasingly difficult to find on the spot. The scarce commodities include Canary Isles COCHINEAL and Pará TONKA BEANS (supplies of which appear to have been taken up and there were no shipment offers from origin). SENEGA was firmer on the spot, and the speculative offers mentioned last week were withdrawn. Chinese MENTHOL was one shilling per lb. lower for spot supplies, and all grades of CINNAMON were marked down for shipment. Exports of Tinnevely SENNA to the United Kingdom (and other countries) from the Port of Tuticorin during May were as follows:—

	U.K.	U.S.A.	EUROPE
LEAVES	Tons 5	Tons 45	Tons 52
PODS	3½	—	29½

Also shipped to the U.K. from that port during May were 5 tons of STRAMONIUM LEAVES and 2½ tons of NUX VOMICA. AGAR was dearer for shipment but spot did not follow in sympathy.

In ESSENTIAL OILS the downward price tendency continued. Among the oils so affected were CASSIA, CITRONELLA and LEMONGRASS. Chinese PEPPERMINT for shipment was at a premium over spot offers. West African ORANGE is being currently quoted very high at from 17s. to 19s. per lb.

Pharmaceutical Chemicals

BARIUM SULPHATE.—1-cwt. lots of B.P. (x-ray) are 1s. 6d. per lb. and 5-cwt., 1s. 5d. per lb.

BORAX.—Prices for B.P. grade, for quantities of 1-ton and upwards, are as follows:—Granular, £49; crystals, £51 10s.; powder, £52 10s.; extra-fine powder, £53 10s. per ton. Prices of commercial range from £40 to £44 10s. per ton, as to type. Dehydrated borax is £60 per ton in paper-lined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities as for boric acid.

BORIC ACID.—Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £81 10s.; crystal, £88 10s.; powder, £86; extra-fine powder, £88 per ton, in 1-cwt. bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

CITRATES.—Rates (per lb.) are as follows:—POTASSIUM, 1-cwt. lots, 3s. 10½d.; 28-lb., 4s. 10d.; SODIUM, 1-cwt., 3s. 3½d.; 28-lb., 4s. 1½d. (powder of both salts twopence more). IRON AND AMMONIUM, 1-cwt. lots, granulated, 4s. 2½d.; 28-lb., 5s. 3d. Scales are 4d. per lb. above the granulated.

DEXTROSE.—Rates are as follows:—MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works, ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d. In drums prices are 4d. per lb. less than above.

FOLIC ACID.—B.P. and U.S.P. is offered at 9s. 6d. per gm. in 1-kilo lots.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt. lots.

GLYCERIN.—Rates for pharmaceutically pure are as follows:—

	Under 1-cwt.	1-cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Minimum deliveries off contract of	—	1-cwt.	1-cwt.	5-cwt.	10-cwt.
Per cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
TINS					
14-lb.	301 0	296 6	292 6	288 0	285 6
28-lb.	299 0	294 6	290 6	286 0	283 6
56-lb.	295 0	290 6	286 6	282 0	279 6
DRUMS					
1-cwt.	—	274 6	270 6	266 0	264 6
2½-cwt.	—	271 6	268 0	263 6	262 0
5-cwt.	—	—	267 6	263 0	261 6
10-cwt.	—	—	266 6	262 6	261 0

Refined pale straw industrial glycerin s.g. 1.260 is 5s. per cwt. less than the above.

ISOPRENALINE SULPHATE.—B.P. is 1s. per gm. for 1,000-gm. lots and 1s. 6d. per gm. for 100-gm. lots.

MAGNESIUM TRISILICATE.—In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

MERCURY DERIVATIVES.—Quotations (per lb.) for 1-cwt. lots are as follows: AMMONIATED, B.P., lump or powder, 33s. 9d.; PERCHLORIDE, B.P., powder, 29s. 9d. (lump 30s.); SUBCHLORIDE, B.P. (calomel), 34s. 3d.; OXIDES, B.P.C., levigated, or yellow, B.P., 37s.

NAPHTHALENE.—Ball and flake are now quoted about £65 per ton delivered U.K.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per lb. in 1-cwt. lots.

PYROGALLIC ACID.—Pure crystals are 18s. per lb. in 1-cwt. lots.

QUININE.—Makers' rates (per oz.) for 100-oz. lots and over are as follows:—ALKALOID, 3s. 10d.; ACETYSALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE B.P. 1932, 2s. 8d.; SULPHATE, B.P. 1948, 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s.; TANNATE, 2s. 7d.

ROCHELLE SALT.—Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 28-lb. and under 1-cwt., 3s. 7d.

STILBOESTROL.—1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is 1s. 0½d.

STRYCHNINE.—Minimum rates per oz. (1,000 oz. lots) include:—ALKALOID, 5s. 6d.; HYDROCHLORIDE, 4s. 5d.; SULPHATE, 4s. 9d.

UREA.—Manufacturers' rates for pharmaceutical grade are £72 12s. 6d. per ton in 1-cwt. bags non-returnable. Technical quality is £41 12s. 6d. per ton for 4-ton lots.

Solvents

ACETALDEHYDE.—The 100 per cent. is 140s. per cwt. for drum lots and the 40 per cent., 149s.

ACETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 240s. and (B.S. 552: 1950), 242s.; BUTYL (B.S. 551: 1950), 172s.; ETHYL (B.S. 553: 1950), 138s.; ISOPROPYL, 133s.

ACETONE.—Drum lots are quoted at £90 per ton.

BENZENE.—Thiophene-free is 9s. 0½d. per gall. in 50-gall. barrels and pure, 6s. 0½d. per gall.

BUTYL ALCOHOL (B.S. 508: 1950).—1-ton lots are quoted at £156 per ton and drums at £159 per ton.

CARBON TETRACHLORIDE, B.P.—1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £78 per ton; 1 ton and under 2 tons, £76 10s.; 2 tons and under 4 tons, £76; 4 tons and upwards, £75.

DIMETHYL ACETATE.—Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 16s. 3d. to 19s. per gall., as to quantity.

PHthalATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISOBUTYL, 1s. 11d.; DIETHYL (normal grade), 1s. 11½d.; DIMETHYL, 1s. 8½d.

Crude Drugs

AGAR.—Kobé No. 1 is 12s. 6d. per lb., in bond. Shipment offers are firmer at 11s. 6d., c.i.f.

ALOES.—Prime Cape for shipmet is 295s., c.i.f. Spot value is 325s. to 330s.

ANISEED (STAR).—Chinese is 145s. per cwt. in bond and 138s., c.i.f.

BALSAMS.—Quotations (per lb.) are:—Canada: spot offers are 22s. 6d.; new-crop for shipment, 19s., c.i.f. Copaiba, B.P.C., 11s. to 11s. 6d.; Peru is 11s. 6d., duty paid; forward delivery, 10s., c.i.f. Tolu (genuine as imported), 26s. 6d. spot and 26s., c.i.f.; B.P., 17s. 6d., spot.

BELLADONNA.—Root testing 0.5 per cent. is offered at 2s. 3d. per lb. (in bond), and LEAVES testing 0.514 per cent. at 3s., duty paid.

BENZOIN.—Sumatra block on the spot is from £27 10s. to £32 per cwt.

BISMUTH METAL.—Minimum rate is 16s. per lb.

CAMPBOR.—B.P. POWDER is 6s. 8d. per lb., in bond. TABLETS, 4-oz. are 7s. 2d., in bond. Synthetic is 4s. 6d.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 5s. 6d.; OOO, 5s. 5d.; OO, 5s. 4d.; O, 5s. 3d.; firsts, 3s. 8½d.; quillings, 2s. 2½d.; chips, about 7d.

COCHINEAL.—Black-brilliant very scarce at 32s. per lb. Silver-grey (Canary Isles) are 20s., nominal and grey-black, 21s., nominal. Peruvian silver-grey is offered at 12s. 6d., landed.

ERGOT. — Portuguese for shipment is 10s. per lb., c.i.f., and on the spot is 12s. 6d., nominal. East-European is from 7s. 6d. to 12s. 6d., spot.

GUM ACACIA.—Kordofan cleaned sorts on the spot are offered at 137s. 6d. per cwt. and June shipment at 129s., c.i.f.

HENNA.—Indian is 105s. per cwt. for the green and 72s. 6d. for brown. Sudanese is 100s., c.i.f.

HONEY. — Australian light-amber is offered on the spot at from 115s. to 125s. per cwt. and medium-amber, 105s. to 113s. Argentine is 135s., ex store.

HYDRASTIS. — Root is 19s. 6d. per lb., on the spot.

IPECACUANHA. — Quiet. Limited spot offers of Colombian at 65s. per lb., and Matto Grosso, 64s. For September shipment, Colombian is quoted at 59s. 6d. per lb., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 340s. per cwt., and No. 2 at 300s.

KOLA NUTS. — African halves continue short on the spot at about 6½d. per lb. Jamaican are offered from 7½d.

LANOLIN. — In 1-ton lots the price of ANHYDROUS, B.P., is from 160s. to 165s. per cwt.; 5-cwt. lots from 162s. to 167s. per cwt. HYDROUS, B.P., is from 140s. to 142s. for similar quantities. All in drums, carriage paid, U.K.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

PEPPER. — Steady. White Sarawak on spot is from 3s. 8d. to 3s. 8½d. per lb. with forward shipment showing a slight improvement at 3s. 7d. to 3s. 8d., c.i.f. Black Sarawak has sold at 3s., spot; shipment quoted at 2s. 10d. to 2s. 11d., c.i.f. Black Malabar is 380s. per cwt., spot; June shipment quoted up to 307s. 6d., c.i.f.

PSYLLIUM.—Indian seeds are quoted at 1s. 1d. to 1s. 2d. per lb. on the spot.

RHUBARB. — Quotations for Chinese are from 7s. 9d. to 9s. 6d. per lb., duty paid, as to quality. Shipment offers at from 6s. 9d. for 60 per cent. pinky to 8s. 1d., c.i.f., for 80 per cent.

SAFFRON.—Mancha superior is 220s. per lb. Rio selecta about 215s.

SARSAPARILLA.—Jamaican native red on the spot is about 3s. 10½d. per lb. For shipment the price is 3s. 6d., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Tunisian offering at 277s. 6d. per cwt., spot, duty paid. CARAWAY.—Dutch are steady on spot with old crop quoted at 160s. and present crop at 155s., both duty paid. CELERY.—Indian is quiet, sellers quoting 140s., on spot. CORIANDER.—Quiet, spot, Morocco, 77s. 6d., duty paid (72s. 6d., in bond); Rumanian, 55s., duty paid and splits, 50s. Shipment, Morocco new-crop quoted at 47s., c.i.f. CUMIN.—Steady. Spot, Cyprian, 122s. 6d.; Morocco, 125s., duty paid; Iranian, 120s., duty paid. Shipment, Cyprian 110s.; Morocco 100s., both c.i.f., London quotations for new crop. DILL.—Indian unchanged at 65s. on spot. FENNEL.—Indian 90s., spot, sellers. FENUGREEK.—Morocco on spot, is nominal at 65s., duty paid. New crop for June-July shipment quoted at 40s., c.i.f. MUSTARD.—English 77s. 6d. to 92s. 6d., according to quality.

SENEGA.—Spot supplies are 24s. per lb. Business done for shipment at about 19s. 2d., c.i.f.

SENNA. — *Tinnevelly* LEAVES (per lb.), prime No. 1, 1s. 1½d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d.; PODS, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot. *Alexandrian* manufacturing pods, 2s. spot; small lots of hand-picked are from 8s.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb., landed.

TONKA BEANS. — Spot supplies have been taken up and there are no shipment offers.

TURMERIC.—Madras finger on the spot is 175s. per cwt.; afloat parcels are quoted at 160s., c.i.f., and June-July shipment resellers offering at 155s., c.i.f. India's price is 160s.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES'—Dar-es-Salaam, spot, 540s. per cwt.; shipment, 520s., c.i.f.; Sudanese, 530s., duty paid and 455s., c.i.f.; Abyssinian, spot 530s., duty paid; shipment, 470s., c.i.f. CANDELLILLA.—Spot is 525s. per cwt. Forward, 570s., c.i.f. CARNAUBA.—Prime yellow on the spot is 810s. per cwt., shipment, 780s., c.i.f.; fatty grey is 515s. on the spot; shipment, 475s., c.i.f. SPERMACETI.—Case lots are about 2s. per lb.

WITCH HAZEL LEAVES. — Offers are now 1s. 10d. per lb. on the spot.

Essential and Expressed Oils

ANGELICA SEED.—Price per lb. is now quoted at 260s.

BOIS DE ROSE.—Brazilian is 34s. 6d. per lb. on the spot and 33s., c.i.f.

CADE.—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

CAJUPUT. — Scarce. Spot supplies are 15s. 6d. per lb. for 1-cwt. lots.

CASSIA. — Original drums are about 14s. per lb. on the spot.

CITRONELLA.—Easier. Ceylon is 6s. 11d. per lb. on the spot and 6s. 7d., c.i.f.; Formosan, 12s. 3d., in bond, and 11s. 9d., c.i.f. Java is unchanged at 12s. 6d., both for in bond and c.i.f.

CUBE.—English distilled is 50s. per lb. and imported, 47s. 6d.

CUMIN. — Quotations for English-distilled oil are about 77s. 6d. per lb. and imported, 57s. 6d.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 6d. per lb.; 80 to 85 per cent., 6s. Spanish, 70 to 75 per cent., 5s., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

HYDNOCARPUS.—Spot is about 2s. 2d. per lb.

JUNIPER BERRY. — Imported oils are dearer from 20s. per lb., duty paid. English-distilled is now 155s.

LAVENDER SPIKE. — Spanish is firm at 14s. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is 35s. to 40s. per lb. Sicilian hand pressed, 45s. to 47s. 6d., spot; 44s., c.i.f. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LEMONGRASS. — Spot is easier at 11s. 4½d. per lb. and shipment at 11s. 1d., c.i.f.

LIME. — Supplies of West Indian distilled are offered from 35s. per lb. on the spot.

NUTMEG. — English-distilled oil is 37s. 6d. per lb. Imported oil is 31s. per lb., duty paid for drum lots.

OLIVE.—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 10s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool: French virgin edible or B.P., £220 per 1,000 kilos, c. and f., prompt shipment. Spot is 21s. 6d. per gall.

ORANGE.—Quotations include: Floridan, 4s. 6d.; Californian and Brazilian, 5s. 6d.; West African, 17s. to 19s.; B. West Indian, 6s.; Palestinian, 7s. 6d. For shipment, Californian sweet, 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f. subject to licence. West African, 14s., c.i.f.

ORIGANUM.—In original containers the price is 13s. to 14s. per lb.

OTTO OF ROSE.—Spot offers are in the region of 425s. per oz. for genuine Bulgarian and 180s. per oz. for Anatolian.

PENNYROYAL. — Spot value 18s. per lb. Scarce; new-crop prices awaited.

PEPPERMINT. — *Arvensis*: Chinese is 37s. 6d. per lb. on the spot and 39s. 6d., c.i.f. Brazilian, 32s. 6d., spot, and 31s. 6d., c.i.f. (June). Italian "Mitcham" type oil is from 65s., spot, and American 60s. to 65s.

PETITGRAIN. — Paraguay is quoted for shipment at 23s. 6d. per lb., c.i.f., and 26s. 6d., spot, in cases.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 11s.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Spot offers are from 14s. per lb.

SAGE. — Spanish is offered at from 8s. 6d. per lb.

SANDALWOOD.—Mysore is 82s. 6d. per lb. spot (80s., c.i.f.); East Indian, 82s. 6d.

TANGERINE. — Sicilian is scarce on the spot at 45s. to 52s. per lb. Shipment is quoted at 63s., c.i.f. Californian is offered at 17s. 6d., spot.

THYME.—Spot is about 10s. per lb.

TITREE. — Small lots are offered at 13s. 6d. per lb.

VETIVERT.—Bourbon in original drums on the spot is 85s. per lb.

UNITED STATES REPORT

NEW YORK, JUNE 14: The prices of THEOBROMINE and its salts were raised by 25 cents per lb. with the ALKALOID now at \$4 per lb. for 100-lb. drums. SILVER NITRATE reagent dropped to 77½ cents per ounce with fused sticks at 80½ cents per ounce. Spot prices for synthetic *laevo* MENTHOL were unchanged at \$9.00 to \$9.25 per lb. Natural menthol from Brazil remained quiet with the undertone soft. Inquiry for CRUDE DRUGS was a shade more active and the trend was mixed. AGAR declined by a further 10 cents and more per lb. to \$2.50-\$2.65. IPECACUANHA moved upward to \$9.00 per lb. KOLA NUTS advanced to a new price of 10-12 cents per lb. and GENTIAN was offered whole at 18 cents per lb. (up three to five cents). While not generally reflected in price trends, better feeling existed in ESSENTIAL OILS, with the approach of the heavy consuming season. CLOVE steadied to \$3.20 to \$3.60 per lb. SPIKE LAVENDER showed a firmer tone, while moderate business was done in LEMON of which supplies were ample. CARAWAY was 25 cents per lb. firmer at \$3.75 to \$4.25; because of the poor crop last year, stocks of seed were extremely low. Good quality PEPPERMINT was scarce.

WORLD TRADE

New U.S. Sulphur Works. — The Freeport Sulphur Co. is to install facilities to produce sulphur from a newly-discovered salt dome under water off the Louisiana coast of the United States.

Pakistan Import Licence Extension. — The Chief Controller of Imports and Exports in Pakistan has decided to extend the validity of import licences issued on or after April 1 to any date up to December 31. Extensions will be granted, on application, to licence-holders for such amounts as they are unable to use within the current shipping period.

French Copper Sulphate Price Cut. The French Price Control Office has announced that the price of copper sulphate for agricultural use has been reduced at all trade levels. All taxes formerly levied on copper sulphate, amounting to about 8 per cent. of the price, are now suppressed. The producer price now amounts to 113 francs per kilo, net, compared with a previous price of 121 francs per kilo including taxes.

French Antibiotic Plant. — A Franco-American chemical plant has been opened at Massy, near Paris. The plant was built by the *Société Industrielle de Biochimie*, in which the U.S. concern Chas. Pfizer & Co., Inc., and the French laboratories Clin-Comar (*Société d'Exploitation des Marques Clin-Byla*) are associated. Clin-Byla has distributed Pfizer antibiotics in France since 1952. Oxytetracycline and tetracycline, and eventually other new antibiotics, will be produced at the new plant.

Carbide From New Process. — A new method of producing calcium carbide through the use of oxygen was described at the Congress of the European Federation for Chemical Engineering held in Frankfurt recently. Professor Carl Wurster, managing director of the *Badische Anilin und Sodafabriken* chemical company, said that adoption of the method in place of the present electrothermic process would save large amounts of electrical energy. He said large-scale tests of the new process had already been successfully completed.

PRINT AND PUBLICITY

Advertising Campaigns

BENGUE & CO., LTD., Mount Pleasant, Alpertons, Wembley, Middlesex: Bornolin. Regular advertising in the medical Press; and direct mail.

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10: Personal Blend foundation lotion. Half-page in *Daily Express* on June 24; and in *Daily Mirror*, *Woman's Sunday Mirror*, *Vanity Fair*, *Woman*, *Everywoman*, *Woman's Own*, *Reader's Digest*, *Modern Woman*, *She*, *Woman and Beauty*.

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Vect. National advertising bigger than ever.

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1: Quickies. Advertising doubled. In women's magazines and national daily and Sunday newspapers.

FEORITE, LTD., 300 Kingston Road, Merton Park, London, S.W.20: Feedrite feeding bottles and teats. Consistent advertising.

H. J. HEINZ CO., LTD., Harlesden, London, N.W.10: Strained foods. New campaign.

E. GRIFFITHS HUGHES, LTD., Manchester: Trugel hair dressing. Large spaces in *Daily Mail*, *Daily Herald* and *Sunday Pictorial*; regular advertising in the national Press, *Radio Times*, *Reader's Digest*.

ILFORO, LTD., Ilford, Essex: Envoy camera. In women's and junior magazines.

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Wilmslow, Manchester: Savlon antiseptic cream. In national daily, Sunday and provincial Press, *Woman's Own*, *Woman's Weekly*, *Home Chat*, *Home Notes*, *Woman's Sunday Mirror* and *John Bull*.

INECTO ENQUIRY BUREAU, 27 Dover Street, London, W.1: Colour crème. Advertised "on a grand scale."

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: Endocin hormone cream. In *Harper's Bazaar*, *Vogue*, *Housewife*, *Good Housekeeping*, *Vogue Beauty Book*, *Woman's Journal*, *Woman and Beauty*, *Vanity Fair*.

REMINGTON RAND, LTD., Shaver Division, 26 Kensington High Street, London, W.8: Remington 60 electric shaver. In daily, evening and Sunday newspapers, *Sporting Record*, *Radio Times*, *Mid-week Reville*, *Weekend Reville*, *Weekend Mail*, *Illustrated*, *John Bull*, *Tit-Bits*.

RONSON PRODUCTS, LTD., 352 Strand, London, W.C.2: Electric shaver. Continual insertions in national and provincial Press and magazines, supported by insertions in the trade Press. A demonstration unit, incorporating a mirror which enables members of the public to try the shaver in the shop, is available.

SCHERK, LTD., 66 Victoria Street, London, S.W.1: Face lotion and face milk. In *Woman*, *Woman's Own*, *Photoplay*, *Picturegoer*, *Woman and Beauty*, during June-December.

SCHOLL MANUFACTURING CO., LTD., 182 St. John Street, London, E.C.1. Scholl "soft-grip" two-way-stretch surgical hosiery. Block of 8-in. double-column advertisement to carry dealer's name and address offered free to stockists.

SCOTT & TURNER, LTD., Andrews House, Newcastle-upon-Tyne: Perminex gamma B.H.C. insecticide. In *Radio Times*, *News of the World*, *People*, *Daily Mail*, *John Bull*, *Illustrated*, *Everybody's*, and gardening magazines.

Booklets and Leaflets

BRITISH CELLOPHANE, LTD., 12 Conduit Street, London, W.1: "Cellophane Cellulose Film." Pp. 70.

BRITISH PLASTICS FEDERATION, 47 Piccadilly, London, W.1: "Buyers' Guide to Plastics Materials and Machinery and Equipment for the Plastics Industry." The guide has been considerably extended and includes particulars of materials in semi-processed forms such as sheet, tubing, etc. There is also a new section dealing with machinery and equipment for the plastics industry. The names and addresses of the member companies supplying each type of material and machinery are given and the trade names used shown. All are indexed. At the head of each section of materials there is a note giving the principal properties and the more important applications of the material concerned. Pp. 62. Price 2s, 6d.

JOSEPH CROSFIELD & SONS, LTD., Warrington: "Bulk Storage and Distribution Systems for Crosfeld Silicates." Pp. 14.

LIVERPOOL DAILY POST AND ECHO, LTD., Victoria Street, Liverpool, 1: "The North-west Market." A survey of marketing conditions in the cities and towns in the circulation area of the Liverpool newspapers. Pp. 210.

LONDON COUNTY COUNCIL, room 113, County Hall, London, S.E.1: "Making a Move." Illustrated brochure designed to interest factory owners and managers in the opportunities

open to them in certain expanding country towns. Pp. 24.

MINISTRY OF PENSIONS AND NATIONAL INSURANCE, 10 John Adam Street, London, W.C.2: "Everybody's Guide to National Insurance." Pp. 32. Price sixpence.

MONSANTO CHEMICALS, LTD., London, S.W.1: "Sodium Benzoate and Benzoic Acid in the Paint Industry." Pp. 12. "Lustrex Latexes." Pp. 10. "Salicylamide." Pp. 4.

MURPHY CHEMICAL CO., LTD., Wheathampstead, Herts: Fruit Growers' Booklet, 1955. Pp. 92.

NOTTINGHAM UNIVERSITY: "Ideas and Methods of Biophysical Chemistry." The text of the twenty-eighth Sir Jesse Boot Foundation Lecture, 1954-55, by Professor D. D. Eley, Sc.D., Ph.D. The lecture, which commemorates the benefactions of the first Baron Trent at University College, Nottingham, is delivered annually on some aspect of chemistry which bears on the life of the community or the industries of the City of Nottingham. This twenty-eighth lecture discusses the relationship of physical chemistry to medical and pharmaceutical science. Pp. 14. Price 1s, 6d.

PARKE, DAVIS & CO., LTD., Hounslow, Middlesex: "Euthymol." Pp. 12.

POLAK & SCHWARZ, Hilversum, Holland: "On the Reaction of Cinnamyl Alcohol with Formaldehyde." Pp. 14. "Musiolacton, a Speciality for the Perfumery Industry." Pp. 4.

PFIZER, LTD., 137 Sandgate Road, Folkestone: "Technical Bulletin No. 71. Agri-mycin 100." Pp. 4. "Antibiotics and Their Effects on Plant Growth." Pp. 4.

TRUFOOD, LTD., Greenbank, London, E.1: "From Spoon-feeding to Family Meals" (booklet).

A. WANDER, LTD., 42 Upper Grosvenor Street, London, W.1: Ovaline Research Laboratories Annual Report (1954). Pp. 8.

Catalogues

R. F. HUNTER, LTD., 51 Gray's Inn Road, London, W.C.1: Photographic Apparatus and Accessories. 1955-56. Pp. 48.

KOOAK, LTD., Wealdstone, Harrow, Middlesex: Dealer Catalogue, 1955. Pp. 156.

Display Material

Display card issued by Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester, for Lorexane insect spray. The card, in colour, measures 15½ x 9½ in.

Periodicals

AUTOPACK, LTD., 22 Caroline Street, Birmingham, 3: *Autopackaging*, No. 2, April 1955. Pp. 8.

BRITISH PRODUCTIVITY COUNCIL, 21 Tothill Street, London, S.W.1: *B.P.C. Bulletin*, April 1955. Pp. 4.

CHILEAN IODINE EDUCATIONAL BUREAU, Stone House, Bishopsgate, London, E.C.2: *Iodine Information*, No. 44. Pp. 22. *Current Iodine Literature*. Vol. 2, Nos. 4 and 5, 1955. Pp. 18 and 16.

DRAGOCO G.m.b.H., Holzminden, Germany: *Dragoco Report*, No. 5, 1955. Pp. 10.

INNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1: *The Innoxia Approach*, Vol. 3, No. 5, May 1955. Pp. 4.

WILLIAM MASON & SON, LTD., Gelderd Road, Leeds, 12: "Shop." Pp. 12.

MONO NICKEL CO., LTD., Sunderland House, Curzon Street, London, W.1: *The Nickel Bulletin*. Vol. 28, No. 4. Pp. 24.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *The Roche Courier*. Vol. 21, No. 2. Pp. 4; No. 3. Pp. 4.

Price Lists

GEORGE T. GURR, LTD., 136 New King's Road, London, S.W.6: Biological Stains and Reagents, 1955. Pp. 36.

MENLEY & JAMES, LTD., Coldharbour Lane, London, S.E.5: Trade and retail. Revised June 1955. Pp. 3.

RICHARD HUDNUT, LTD., Power Road, London, W.4: 1955. Pp. 4.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 1

For ophthalmic preparations (5)

NUVISOL, 738,629, by Castle Huskisson, Ltd., London, N.1.

For sleeping tablets being pharmaceutical preparations (5)

PAXETS, 738,984, by Fairpak, Ltd., Bolton, Lancs.

For surgical dressings (5)

PLASTALAST, 739,508, by Alex Parsons, Oldham, Lancs.

For pharmaceutical preparations for human and veterinary use, and sanitary substances and disinfectants (5)

HYSANIC, 739,972, HYDIS, 740,161, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For veterinary tonic preparations for use in the treatment of gape in birds (5)

REHTIP, 740,119, by James & Co. (Hungerford), Ltd., Berks.

For scientific apparatus and chemical apparatus for laboratory use, and testing apparatus (9)

CHEMIX, B731,383, by F. & R. M. Harris (Birmingham), Ltd., Birmingham.

For surgical and medical apparatus (10)

GEROBOS, 737,273, by Aubrey Aitken Crawshaw, Sherborne, Dorset.

For combs and brushes (21)

DURETHAN, 736,155, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

From the "Trade Marks Journal," June 8

For tanning materials and chemical products for use in the tanning and dyeing industry (1)

AMPHODERM, 729,854, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For natural and artificial fertilisers in powder form (1)

Device, 736,010, by Ernest A. Lewis & Co., Ltd., Birmingham.

For plasticisers being chemical substances for use in industry (1)

NONAFLEX, OCTAFLEX, 739,191-2, by the Distillers Co., Ltd., also trading as British Industrial Solvents, London, W.1.

For non-medicated toilet preparations (3)

PLASTO-SEIN, 734,953, by Serge Pierre Francois Norrenberg, Brussels, Belgium. SYL, 739,595, by Lloyd Hamol, Ltd., London, W.1.

For pharmaceutical preparations containing nitroglycerin (5)

NITROGLYN, 735,946, by Key Corporation-Ethical Pharmaceuticals, Florida, U.S.A.

For bandages and materials for bandaging; and medical and surgical plasters and dressings (5)

MOLEFOAM, 738,583, by the Scholl Manufacturing Co., Ltd., London, E.C.1.

For pharmaceutical preparations and substances (5)

OTIGOL, 739,172, by Camden Chemical Co., Ltd., London, W.C.1.

For all goods (3)

BLULAN, 738,601, by Ashe Laboratories, Ltd., Leatherhead, Surrey. BURLEON, 740,042, by Burleon Ltd., London, W.1.

For hair creams prepared from vitaminised oils for sale in the U.K. and for export to the Channel Islands (3)

VASELINE HAIR CREAM, 739,318, by Chesbrough Manufacturing Co., Ltd., London, N.W.10.

For pharmaceutical preparations for use in the treatment of the skin (5)

CROOKES SELF-BLEND, 734,814, by The Crookes Laboratories, Ltd., London, N.W.10.

For pharmaceutical preparations containing orange juice, glucose and vitamin C, for making beverages (5)

SOLORO, 739,868, by Solo Orchards, Ltd., London, N.20.

For pharmaceutical preparations for human use in the treatment of rheumatism (5)

RHEUMESTER, 740,154, by Rouse of Wigmore Street, Ltd., London, W.1.

LOCAL OFFICERS

PHARMACEUTICAL COMMITTEES

Kent and Canterbury.—Chairman, Mr. S. J. Hamer.

PHARMACEUTICAL ASSOCIATIONS

Birmingham.—Chairman, Mr. F. R. C. Bateson; Vice-chairman, Mr. D. J. Crawford; Treasurer, Mr. G. N. W. Buckingham; Secretary, Mr. C. McArdle, 110 Delrene Road, Shirley, nr, Birmingham.

Liverpool Chemists.—President, Mr. J. Farrer-Barnes; Vice-president, Mr. B. M. Kelly; Treasurer, Mr. E. C. Bourns; Secretary, Mr. L. Denver Rees, Laureston, Langlanc, West Kirby, Ches.

PHARMACEUTICAL SOCIETY

Harrow Branch.—Chairman, Miss M. C. Islip; Vice-chairman, Mr. H. Treves Brown; Treasurer, Mr. K. Roberts; Secretary, Mr. G. Mooney, 71 Dorothy Avenue, Wembley, Middlesex.

Liverpool Branch.—Chairman, Mr. J. Farrer-Barnes; Vice-chairman, Mr. B. M. Kelly; Treasurer, Mr. E. C. Bourns; Secretary, Mr. L. Denver Rees, Laureston, Langlanc, West Kirby, Ches.

WILLS

Mr. F. R. ADAMS, F.P.S., Halton Road, Spilsby, Lincs, left £2,901 (£1,761 net).

Mr. A. E. BARBER, M.P.S., 7 Hcrmon Terrace, Plymouth, left £1,781 (£1,554 net).

Mr. A. BEVERIDGE, M.P.S., 68 Cranston Avenue, Bexhill-on-Sea, Sussex, formerly Dartford Road, Sevenoaks, Kent, left £3,843 (£3,746 net).

Mr. O. CAMPBELL, M.P.S., 156 Knowsley Road, St. Helens, Lancs, and formerly 115 Dale Street, Liverpool, left £3,956 (£3,882 net).

Mr. W. W. COWAP, M.P.S., 335 Norwich Road, Ipswich, left £3,252 (£2,800 net).

Mr. V. DOBSON, M.P.S., 98 Holland Road, London, W.14, left £2,555 (£2,464 net).

Mr. J. DYSON, M.P.S., 15 Lower Holme, Slaithwaite, Yorks, left £14,340 (£14,305 net).

Mr. H. L. HOWELL, M.P.S., Siddington Park Farm, Siddington, nr, Cirencester, left £50,130 (£36,197 net).

Mr. W. H. HUNT, M.P.S., 184 Balfour Road, Brighton, left £7,526 (£7,406 net).

Mr. J. JACK, F.P.S., 6 Alexandra Place, Arbroath, left £44,677.

Mr. H. I. JONES, 3 Church Road, Roby, Lancs (a director of H. I. Jones, Ltd., chemists, Liverpool), left £4,890 (£2,608 net).

Mr. J. C. JOHNSTON, M.P.S., 104 Quarry Street, Woolton, Liverpool, left £8,892 (£8,788 net).

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *—Tax 25 per cent.;

GEIGY PHARMACEUTICAL CO., LTD.

Jrgapyrin ampoules 5 8 5 R
50 72 0 R

PFIZER, LTD. (quantity prices from June 20)

Terramycin animal formula
tube 3 0
gross 2 10
2 gross 2 8

P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

ALLEN & HANBURY, LTD. (from June 13)

Allenburys Dextrin-Maltose,
plain or with 2 per cent. Doz.
sodium chloride 1 lb. 43 0 4 9 A
4 lb. 140 0 15 6 A

PROPAX CO. (change of proprietorship)

Pro-Pax tablets* 5 2 6 4
9 4 8 7 1/2
24 11 4 1 7
45 19 4 2 8

Tax-free dispensing packs also available. Prices of Clo-Pax denture cleaner are available on application to the company.

THE EASTERN COUNTIES PRESERVES (1940), LTD. (Distributors:—FASSETT & JOHN-SON, LTD.)

Lockwood's vitamin C

Mr. M. W. JOHNSON, M.P.S., 64a Thoroughfare, Woodbridge, Suffolk, left £2,161 (£2,012 net).

Mr. G. W. KENNEY, M.P.S., Fernlea, Oaks Lane, Willington, Repton, Derbys, and formerly High Street, Repton, left £3,048 (£3,011 net).

Mr. E. A. LAWTON, M.P.S., 20 Barton Court Road, New Milton, Hants, and formerly 4 Sandringham Mansions, Exeter Road, Bournemouth, left £1,658 (£1,610 net).

Mr. J. LINKS, M.P.S., 302 Frohisher House, Dolphin Square, S.W.1, left £2,177.

Mr. J. LUNDIE, M.P.S., 44 High Street, Margate, Kent, left £1,058 (£1,010 net).

Mr. A. W. MARSHALL, M.P.S., 2 Alfriston Road, London, S.W.11, left £3,571 (£3,533 net).

Mr. R. J. MARSHALLSAY, M.P.S., 119 Harewood Avenue, Boscombe East, Bournemouth, and formerly High Street, Wootton Bassett, Wilts, left £35,243 (£35,142 net).

Mr. I. C. PAGET, M.P.S., High Street, Odham, Hants, left £7,133 (£5,741 net).

Mr. H. R. PERRY, M.P.S., 17 Beach Street, Deal, Kent, left £951 (£909 net).

Mr. L. W. RAGG, F.P.S., The Laurels, Melford Road, Sudbury, Suffolk, left £2,241 (£1,937 net).

Mr. A. L. ROBERTSON, M.P.S., 27 Beaufort Road, Kingston-on-Thames, Surrey, left £1,540 (£1,489 net).

Mr. G. A. S. ROWE, M.P.S., 35 High Street, Narberth, Pembrokes, left £19,481 (£18,307 net).

Mr. J. SPANTON, M.P.S., Castlegate, Malton, Yorks, and formerly Shardale, Winttingham, Yorks, left £4,598 (£4,521 net).

Mr. G. S. SWAIN, M.P.S., 105 Bridge Street, Peterborough, Northants, left £6,869 (£6,523 net).

Mr. S. SWIFT, M.P.S., 31 Manor House Lane, Yardley, Birmingham, left £2,775 (£1,079 net).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, June 22

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, White Horse Hotel, Congreve Street, Birmingham, at 1.45 p.m. Coaches leave for visit to Aynhoe Park, Nottingham, picking up at the Robin Hood Hotel, Hall Green, at 2.15 p.m. Ticket 15s. (including tea) from Mr. W. F. Norris, 270 Warwick Road, Olton, Birmingham, 27, by June 15.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, four-ball Stableford competition at Prestbury for the Robinson's prize.

DELETION FROM THE PROTECTED LIST
HIMROD MANUFACTURING CO.
Himrod's asthma remedy.

NEW PRODUCTS AND PACKS BAYER PRODUCTS, LTD.

Veripaque 6 x gm. Each 11 4 17 0

EVANS MEDICAL SUPPLIES, LTD.
Ergometrine with Rondase 3 4
Presersul tablets* 100 1 5 2 6
(tax-free pack) 1,000 6 6 9 9
(tax-free pack) 5,000 30 0

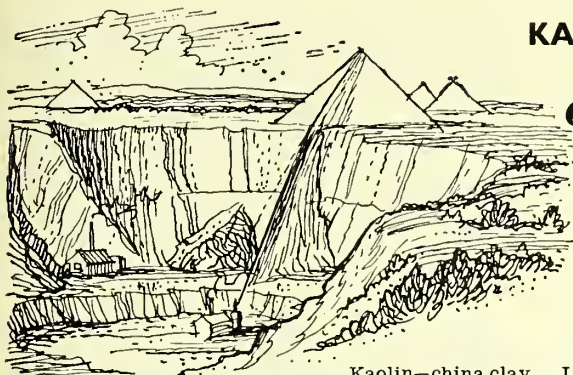
HOUGH, HOSEASON & CO., LTD.

Valomel hand lotion* 11 2 1 6
16 9 2 3

RACASAN, LTD.
Racalon antiseptic cream 2 3
Racalon antiseptic rinse 3 9
Ridsmell animal deodorant 3 9

WHITCROFT PIN MANUFACTURING CO., LTD.
Whitcroft special napkin pin 4 1 0

KAOLIN FROM CORNWALL...but overalls from Gardiner's



Kaolin—china clay... Little ships from all the world anchor in Fowey river for their precious loads... China clay for porcelain—and kaolin (the same thing) for pharmacies... But Overalls from Gardiner's—material “medicinal” in its protective properties... Write, please, for our new comprehensive catalogue and price list.

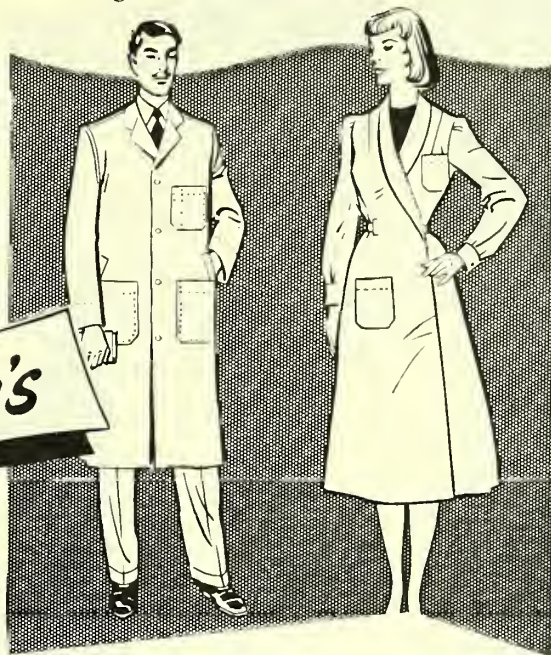
Illustrated left. Style C.40.
Men's Long Coats in White,
Khaki or Grey. 34" to 46" chest.
26/6 and 28/11.

Illustrated right. Style C.70.
Ladies' Drill Overalls in White.
SW 22/6. W & WX 24/6.
OS 26/6.

Post orders welcome. Please en-
close 1/3d. extra for postage
and packing.

Gardiner's

THE
OVERALL SPECIALISTS



Gardiner & Co. (The Scotch House) Ltd., 1, 3 & 5 Commercial Road, London, E.1. Tel: BISHopsgate 6751/3

NEW DEVELOPMENT IN ANTICHOLINERGIC THERAPY

Antrenyl

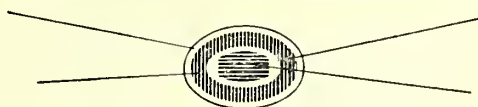


A SINGLE tablet with TWO PHASES of activity

sugar coating

INITIAL DOSE OF
5 mg. ANTRENYL

DIAGRAMMATIC REPRESENTATION



acid resistant membrane
which disintegrates in
the small intestine

SECOND DOSE OF
5 mg. ANTRENYL

Two tablets daily provide four spaced doses for the relief of
gastro-intestinal pain, particularly nocturnal pain in peptic ulcer

10 mg. Antrenyl 'Duplex' tablets in bottles of 25 (9/-), 100 (33/6), and 500 (164/-)

Subject to the usual discounts. Exempt Purchase Tax

'Antrenyl' is a registered trade mark denoting 2-diethylaminoethyl- α -cyclohexyl- α -phenylglycollate methobromide. Reg. user.

CIBA LABORATORIES, LTD., HORSHAM, SUSSEX

C I B A

Tel: Horsham 1234 Grams: Cibalabs, Horsham.

Pattinson's REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM - TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.

for the
PHARMACEUTICAL
Industry

THE WASHINGTON CHEMICAL CO. LTD.

A member of the TURNER & NEWALL ORGANISATION
WASHINGTON · CO. DURHAM · ENGLAND

The shaving brush with the TWO YEAR guarantee . . .

We cordially invite you, when in London to visit our showrooms at:—

92 Regent Street, London, W.1
(one minute from Piccadilly Circus)
and see our range of 250 Pure Bristle and Pure Badger Shaving Brushes to suit all markets



Please ask your wholesaler for particulars of our special offers.

Write for illustrated brochures and price lists
THE PROGRESS SHAVING BRUSH CO. LTD.
Mottram St., Stockport, Eng. 92 Regent St., London, W.1

PEG BOARD BRACKETS

for YOUR business

We have all the correct peg board brackets for displaying the goods you sell. There are many kinds to choose from. Our brackets are supplied in bronze and silver zinc finishes, from **15/-** per doz.

PEG BOARDS

First quality. Stove enamelled in black, white, cream, green, burgundy. 8ft. x 4ft. from **56/-**.

In natural colour, undecorated, from **25/-**. Fluorescent letters for peg boards, from **48/-** per doz.

CHURCH & CO. (FITTINGS) LTD.

36 MINSTER STREET, READING
Telephone: READING 2035/6

LEEDS—17 Belgrave Street, Leeds 1
GLASGOW—77 Queens Street, Glasgow C.1
Agent for Northern Scotland—C. T. A. Winram, 121 Crown Street, Aberdeen.

TRESS Sales are mounting- week by week...

**STOCK IT...
DISPLAY IT...
SEE HOW IT SELLS!**

TRESS

The new kind
of wave-set
that sets
the pace
for wave-set
sales

TRADE PRICE
14/4d. per doz.
75% Tax

RETAIL PRICE
2/8d. per bottle



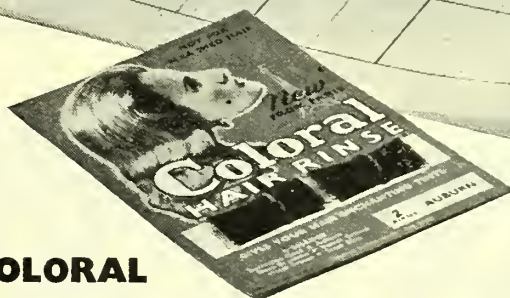
SALES OF BEAUTY PRODUCTS



TRILL

The new brush-on hair
beautifier for dry and
broken hair

TRADE PRICE 13/8d. per doz. 75% Tax
RETAIL PRICE ... 2/6d. per tube



COLORAL

HAIR COLOUR RINSE

TRADE PRICE 6/2½d. per dozen cards. 75% Tax
RETAIL PRICE 1/2d. per card of two rinses

GOLDEN LTD., Now at 7 GROSVENOR STREET, LONDON, W.1. HYDe Park 1671

Trade Enquiries for the Republic of Ireland should be addressed to Lilmar Pharmaceuticals, Ltd., Santry, Dublin

GN2515A

TRUST ALL your takings to the 3-WAY PROTECTION of the VIGILANT

2-TOTAL Model No. 132(7)2 For the Pharmaceutical Trade

(IMMEDIATE DELIVERY)

5 YEARS GUARANTEE ★ MADE IN DUNDEE

- 1** BOLD, white on black, wide angle INDICATION —reading left to right, front and rear.
- 2** AUTOMATIC, PERMANENT RECORD of all transactions: Last 9 items always visible.
- 3** AUTOMATICALLY PRINTED CUSTOMERS PURCHASE CHECK



Designed to PROTECT & built to ENDURE

THE NATIONAL CASH REGISTER COMPANY Ltd.

206-216 Marylebone Road, London, N.W.1, and all principal business centres

Life-long satisfaction
is guaranteed to every user
through National's
unequalled SERVICE after
SALES ORGANIZATION



WALES **LANDS END** Our speedy service
for all chemists' supplies is
assured by **REGULAR ROAD DELIVERIES**
in the West of England and S. Wales areas

FERRIS AND CO LTD · BRISTOL
Manufacturing
and Wholesale Chemists
Telephone BRISTOL 21381 · Telegrams FERRIS, BRISTOL

N23

A WARM favourite!

Victory V

GUMS & LOZENGES
FRYER & CO. (Nelson) LTD., NELSON, LANCs.

TACKY TAPE
TRANSPARENT & COLOURS

ATTRACTIVELY
PRINTED
IN ONE OR TWO COLOURS

SAMUEL JONES & CO. LTD.
NEW BRIDGE STREET, LONDON, E.C.4. CENTRAL 6500.

WE PREPARE SUGGESTIONS IN COLOUR
for approval without charge

DISCERNMENT IN DISPENSING



The discerning Pharmacist demands a container which combines attractive appearance with sound functional design. Beatson Bottles are produced especially to satisfy both these requirements—they look well, store well, handle well, pour well—Beatson Medicals, Panels, Ribbed Ovals, Emulsions, Tablets, Olive Oils, Corbyns and in fact every bottle used in Pharmacy is the better for being "BEATSON".

"The Sign of a



Good Bottle"

BEATSON, CLARK & CO., LTD.

GLASS BOTTLE MANUFACTURERS

ROTHERHAM

Established 1751

YORKS.

How do they ask for a vacuum flask?



THERMOS
REGISTERED TRADE MARK

every time!

Yes, customers young and old ask for Thermos when they want a vacuum flask (or a jug or a jar) . . . because Thermos is the original vacuum flask, the most efficient, and—in the long run—the cheapest. All Thermos flask models now have the new easy-pouring lip.

There's always a sale for **THERMOS**

A household name
... a steady seller
**Dr. Williams
Pink Pills**



Year after year this popular Iron Tonic has brought steady profit to chemists all over the country. It still retains its reputation of being the ideal restorative for blood and nerves, providing pure medicinal Iron in its most assimilable form. Selling at 1/8 and 3/9½, Dr. Williams Pink Pills are a profitable line to stock and display. Obtainable from every wholesaler.

Also order *Handjoy*



Sales rapidly growing because it answers a housewife's problem—removes vegetable and fruit stains from the hands and kills onion smell. *HANDJOY'S* novel purpose appeals on sight, and sales quickly spread by customer-recommendation. I.r.p. 2/6 per jar. From wholesalers.

Mixed Parcels of both these lines available direct from
G. T. Fulford Co. Ltd. (of Canada), Hatch End, Mdx.

Show 'Elasto' — It Sells on Sight!

Elasto
THE BIOCHEMIC TABLET

Retail Price
(incl. P.T.)
5/8d. and 22/7d.

ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

NEW ERA LABORATORIES LTD.
CECIL HOUSE • HOLBORN VIADUCT • LONDON

IT PAYS TO DISPLAY

SECTO

BRITAIN'S GREAT INSECT KILLER
FOR BIGGEST PROFITS

DICTIONARY OF SYNONYMS

For the pharmacist and his staff.
Contains over 7,000 synonymous terms.

5/4 POST FREE

The Chemist and Druggist
28 ESSEX STREET, LONDON, W.C.2

"ROADMASTER"
NIGHTDRIVING GLASSES

—the new accessory that
every Motorist wants!

Manufacturers: **FISH OPTICAL CO. LTD.***
McNeish House, 261 HARROW ROAD, LONDON, W.2
Tel.: CUNNINGHAM 8318 & 8267

*Makers of the world-famous 'SUNGARD' Sunglasses

A NEW LINE FOR YOUR SMARTEST CUSTOMERS . . .

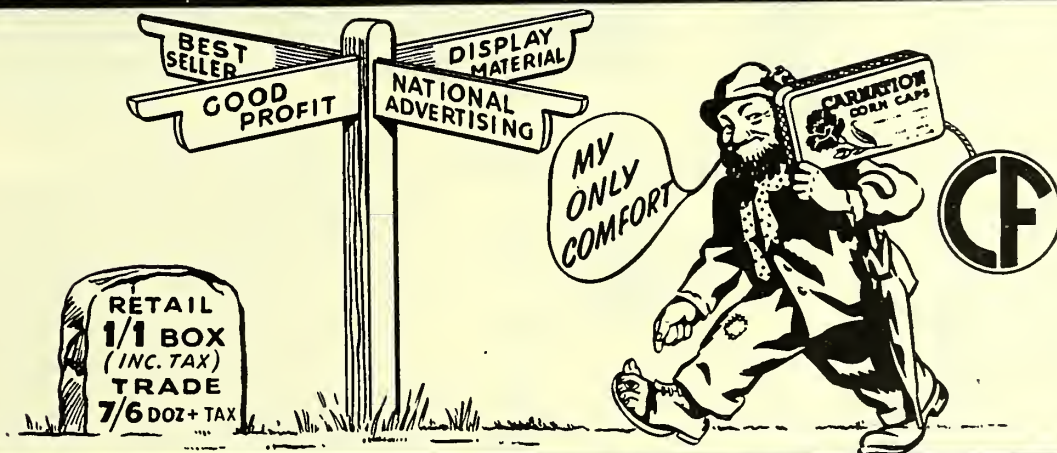
Raymond Colour Rinses

- * Impart a delicate hair perfume.
- * Remain true to shade until washed out.
- * No setting lotion required.
- * Special dropper bottle for neat application.
- * Ten shades: TORCHLIGHT TITIAN • SKY BLUE
DRAB BLONDE • FIRELIGHT AUBURN
MOONLIGHT GREY • SILVER • CHARCOAL
SUNSHINE BLONDE • SUMMER ROSE
SUNLIGHT DARK BROWN
- * Retails at 7/6. Price to you 3/4 (plus 2/4½ P.T.) less 5% discount, in lots of one dozen assorted shades.
- * Half-page advertisements to appear in leading Women's Magazines.



Distributed by WARNER, HARVEY & CO. LTD., 28b Albemarle Street, Mayfair, London, W.1

CARNATION CORN CAPS



Still the most popular Corn remover

and for Callouses — CARNATION CALLOUS CAPS
A PRODUCT OF

Cuxson, Gerrard & Co. Ltd.

OLDBURY • BIRMINGHAM.



Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

GYNOMIN

The scientifically balanced antiseptic deodorant contraceptive—in tablet form.

GUIDANCE...

Guidance on methods of family planning is often welcome and does much to remove anxiety and promote a patient's mental and physical well-being. The modern contraceptive, GYNOMIN, inspires confidence with its high spermicidal efficiency. GYNOMIN is absolutely harmless to health, non-greasy and clean in application, and keeps perfectly in all climates.

SPECIAL QUANTITY DISCOUNTS MEAN EXTRA PROFITS

3 doz. tubes at 31/6 per doz.	less 5%
6 " " " " "	7 1/2%
12 " " " " "	12 1/2%

Retail price 3/6 per tube of 12 tablets.

Order from your wholesaler.

Regular medical national publicity will bring increasing demands to your pharmacy. Medical literature available to pharmacists on request.

COATES & COOPER LTD *Pyramid Works, West Drayton, Middlesex*

**ROTER TABLETS ARE PRESCRIBED
THE WORLD OVER**



ROTER *for the treatment of*
**PEPTIC ULCER
and GASTRITIS**

In cases of chronic gastric and duodenal ulcer, it often happens that a course of Roter tablets obviates the need for surgical measures or hospitalisation. Roter therapy can also be successfully applied to gastritis and minor stomach disorders.

Roter tablets are constantly advertised to the medical profession, and prescribing is rapidly increasing. Supplies are obtainable from your usual wholesaler.

F.A.I.R. LABORATORIES LIMITED
179 Heath Road, Twickenham, Middlesex
Telephone: POPesgrove 2028

ROTER contains
NO NARCOTICS
and has
NO SIDE-EFFECTS

PACKINGS
Retail prices including P.T.
Trial size, 40 tablets, 7/2d.
Standard size, 120 tablets,
20/7d. Full treatment size,
640 tablets, 103/-d. Dis-
pensing Packs, 720 tablets,
P.T. exempt.

The Camera *that does not come back*

HERE at last is a camera built by a pre-war manufacturer to a pre-war high quality standard. Made by Gerhard Goldammer of Frankfurt since 1935 it is an instrument of unsurpassed finish and performance — a camera that once sold will give your customer nothing but utmost and lasting satisfaction.

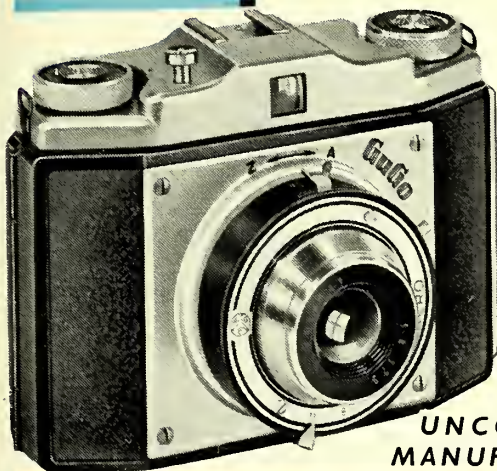
All we ask you to do is to just compare the following features of the New Gugo with any other camera of this type.

The NEW GUGO

film size

2½" × 2⅛"

- ★ F.8 lens in focusing mount and a REAL shutter by Gauthier where the famous Prontors come from. B, 1/25 and 1/75 fully flash synchronised of course.
- ★ All metal construction with rigid positively locking lens barrel made of hard chromium plated steel.
- ★ Solid die cast top and body release.
- ★ Two real winding knobs with film speed indicators.



AT THE INCREDIBLY LOW RETAIL PRICE OF

£5.7.4 (INCLUSIVE OF P.T.)
£1.6.4

Also available with

F4.5 Bayreuth lens/Vario Shutter at
£9.17.6 inc. P.T. £2.8.6

F3.5 Bayreuth lens/Prontox Shutter, built-in
delayed action at £12.12.6 inc. P.T. £3.1.11

F2.9 Bayreuth lens/Prontor SVS Shutter at
£15.5.0 inc. P.T. £3.14.10

Ever Ready Case Imitation Leather £1.9.10. Real Leather £2.7.9.

UNCONDITIONALLY GUARANTEED BY THE
MANUFACTURERS AND THE SOLE IMPORTERS

HAYNOR LIMITED, 167, GREYHOUND ROAD, LONDON, W.6.

FULham 4343



A Comprehensive Range

MORPANS CH & CHS (CETRIMIDE BP)

Powerful Quaternary. Bactericides for Antiseptic Cleansing.

TEXOFOR AIP (CETOMACROGOL 1000 B.P.C. 1954)

Non-Ionic Emulsifier and Dispersant.

COLLONE NI (CETOMACROGOL WAX B.P.C. 1954)

Non-Ionic Emulsifying Wax for inert emulsions, resistant to extreme pH values, hydrolytic agents and high salt concentrations.

COLLONE AC

Non-Ionic Emulsifying Wax especially valuable for hydrocarbon emulsification ranging from light oils to high melting paraffins.

Hydrophilic base Pharmaceutical and Cosmetic preparations.

COLLONE SE

Anionic Emulsifying Wax for producing emulsions exceptionally stable to temperature changes and giving high viscosities at low concentrations.

COLLONE HV

Anionic Emulsifying Wax Base for the Cosmetic Industry.

GLOVERS (CHEMICALS) LTD.

WORTLEY LOW MILLS, WORTLEY, LEEDS 12. Tel: Leeds 63-8037. Grams: "Glovers, Wortley, Leeds."





A BOLD DISPLAY BRINGS BIGGER PROFITS!

You'll sell your HINDS *on sight*, if you make a mass display of these eye-catching CORAL-PINK packs in your windows and on your counter!

Yes, Hinds will bring a bright splash of colour to your shop, and send up your sales too! So be sure to arrange appealing Spring displays using these smart tubes and jars and classical bottles supported with Hinds attractive show material in pink and yellow. Please write us if free show material is required. Remember—bold displays will certainly bring bigger profits to you!

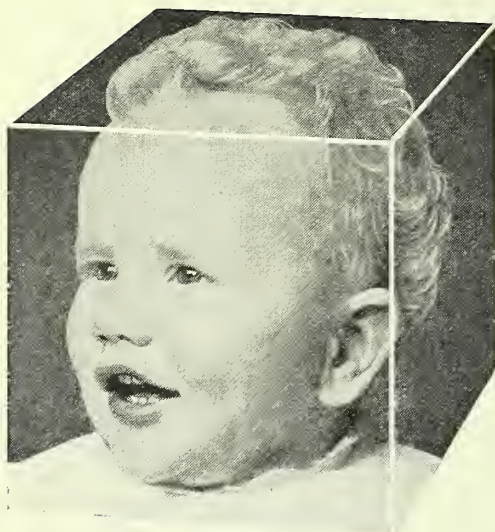
'HINDS' HANDS WIN NATION-WIDE CONTEST
Smooth white hands, cared-for with Hinds, were voted the loveliest 'Hands of the Year' in a recent London contest. A panel of celebrities awarded first prize to Hinds user, Miss Anne Holland-Hughes of Manchester. Here she is, showing off her lovely 'Hinds hands' which won her a handsome cash prize and a Television appearance.

Hinds *Honey and Almond* cream

WITH LANOLIN

HINDS HONEY AND ALMOND CREAM. LEHN AND FINK (PRODUCTS) LTD., RAYNES PARK, S.W.20.





Bonny Peter Holt, of Bethnal Green, London, was weaned on Bovril Brand Weaning Food.

A Regular Little Customer

THE moment a baby starts on Bovril Brand Weaning Food, he becomes one of your regular customers. The sales of this wonderful new Weaning Food are increasing steadily. It is recommended by doctors and clinics, and its makers are constantly receiving enthusiastic letters from mothers who are using it.

Demand for Bovril Brand Weaning Food grows steadily because :—

- A purée for Baby can be made in one minute.
- It is bland, nourishing and easily digested.
- There's no possibility of food-infection.
- It is backed by large scale, large space national advertising.

Four varieties :

MIXED VEGETABLE · SPRING CABBAGE
CARROT · TOMATO



For full particulars of trade terms please write to:

BOVRIL LIMITED, OLD STREET, LONDON, E.C.1



people prefer

Warmabed

ELECTRIC BLANKETS

because of their superior construction and unfailing reliability—because they are of 100% pure wool in lovely pastel shades and of course, because they carry the Good Housekeeping Seal of Efficiency.

SALES AIDS

Ask for list of window displays, P.V.C. stickers, Showcards, Posters and Folders available for every Stockist.



NATIONAL ADVERTISING

Will continue to increase the demand for Warmabed Electric Blankets.

Write for Catalogue and trade terms

MODERN ELECTRICAL INDUSTRIES LTD.
KNOTTINGLEY, YORKSHIRE

Tel.: Knottingley 51. Grams and Cables. "Warmabed, Knottingley"



QUILLAYA

BUCHU

RAUWOLFIA

Serpentina Benth

and all other. Botanicals, Gums,
Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK · HAMBURG

Put these on your counter and see how they sell

These are the feeding bottle teats with the name every mother knows. Show them in this eye-catching display carton—and see them go! Ingram's Spiral Band teats are made from finest latex rubber; last longer, even with constant sterilization. And they incorporate the exclusive patented Spiral band which *grips tight* to the neck of the bottle and prevents mess and mishaps.

Ingram's
SPIRAL TEATS



Styles 1, 2, 3 and 4 in attractive display cases of a dozen, and SPIRAL BAND VALVE TEAT individually packed. All styles included on P.A.T.A. list. Obtainable from your Wholesaler. In cases of difficulty write to: J. G. Ingram & Son, Ltd, The London India Rubber Works, Hackney Wick, E9



Order Now FOR SUMMER SALES

SAN SAT

removes Beach Tar and Oil
Stains from Skin and Clothes

Retail 1/9 a bottle

Trade 14/- per dozen tax free

Children's
Travel Sickness Preventive
Safe and effective

Retail 1/11 a bottle

Trade Price 11/6 per dozen.

(P. Tax 2/10½)

Bromodal



JOHN BELL, HILLS & LUCAS LTD.
Oxford Works, Worsley Bridge Road, London, S.E.26

YOUR DAILY HELP MEANS BUSINESS



"Clean Victory" for Domestos

Battle of the Bend Boosts Business

The Domestos Puppet Films are unique. Wherever they are shown audience reaction is favourable. They are more than entertainment. They pack a terrific punch. The message gets home. And the tell-tale till records the impact made on sales. See these films when they are in your district. We will let you know when and where.

What they say about the Films

" well received locally."
 " the public have told me how cleverly the theme was put across."
 "Members of the cinema staff say the film created quite a stir."

DOMESTOS LIMITED, COLLEGE WORKS, ALBION ROW, NEWCASTLE UPON TYNE, 6


THE CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
 Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

ORRIDGE & COMPANY

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL

BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078

184 STRAND, W.C.2

Tel.: TEMple Bar 9212/3 & 6340

PREMISES TO LET

THURROCK URBAN DISTRICT COUNCIL NEW SHOP TO LET

Offers of annual rent are invited for a 21-year lease (with mutual options to break at 7 or 14 years) of one shop in a block of five on the Council's housing estate at Southend Road, Corringham, Essex, from chemists. Maisonnette above normally available to lessee. Further extensive development in locality anticipated. Full particulars and forms on which offers should be submitted may be obtained from the Clerk of the Council, Council Offices, Whitehall Lane, Grays, Essex. Offers must be received by noon on July 4, 1955, C 8690

BUSINESSES FOR DISPOSAL

**17/6 for 36 words (min.) then 4d. per word.
Box 2/-**

AN OLD-ESTABLISHED business of surgical instrument makers and suppliers is for disposal by the Receiver. Continuous record of trading for nearly 100 years. Own workshops and retail shop in city centre. For further details apply to the Receiver, S. D. Moore, F.C.A. (Dutton, Moore & Co.), 4 Silver Street, Hull. C 8704

DRUG STORE, £850 a.a., London, S.W. Small lock-up shop adjoining Metropolitan Railway Station. Present hands eight years. Low rent. Trade largely surgical rubber goods. Box C 2614.

DRUG STORE, Premises in main road London suburb. Suit chemist or branch. Established 20 years. £1,900 s.a.v. Box C 2626.

MANUFACTURING toilet preparations and wholesale chemists' and hairdressers' sundries, as running concern, established ten years, with two vans if required. Good connection Greater London area. Flat and garage available. Phone: Riv 1489. C 2588

NEWCASTLE-UPON-TYNE, Pharmacy (Ltd. company) for sale in the best part of the city. Purchase of entire issued shareholding approx. £500. Advantageous taxation position. Property including modern flat could be made available if necessary. Apply Box C 2627.

PHARMACY IN N. LONDON FOR SALE. Lease 19 years. Profit rental due to sub-letting. Large N.H.S. willing to allow would-be purchaser (pharmacist) to manage pharmacy for a trial period. Price £1,750 plus s.a.v. or reasonable terms could be arranged. Apply Box C 2628.

APPOINTMENTS

**18/- per half inch (min.) and pro rata.
Box 2/-**

GERMAN HOSPITAL, DALSTON, E.8

(157 Beds—General)

Assistant in Dispensing

(Apothecaries' Hall Certificate). Whitley Salary and conditions. Application form from Group Secretary, Hackney Hospital, London, E.9. C 8714

MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5

Locum Pharmacist

required for an indefinite period at a salary to be agreed. Apply giving details of qualifications, experience and names and addresses of two referees, to K. J. Johnson, House Governor and Secretary C 8677

BOSTON COMBINED HOSPITALS (319 BEDS)

Pharmacist

required. Modern department. Nationally negotiated conditions of service. Commencing salary £500 to £550 according to experience, rising annually to £725.

Apply stating age, qualifications, experience (if any) and names of two referees, to the Hospital Secretary, Boston General Hospital, Boston, Lines.

Locum welcomed for interim period, salary £14 14s. per week. C 8630

BRENTWOOD GROUP HOSPITAL MANAGEMENT COMMITTEE. HAROLD WOOD HOSPITAL

Locum Pharmacist

required for a period of not less than four months from May 31. Duties will be mainly at Harold Wood. Salary 15 guineas per week. Residential accommodation available for female. Applications should be sent to the Group Pharmacist, Harold Wood Hospital, Harold Wood, Essex, from whom further particulars may be obtained. C 8691

BROOKWOOD HOSPITAL MANAGEMENT COMMITTEE

Assistant in Dispensing

Applications are invited for the post of Assistant in Dispensing. The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1,750 patients.

The salary scale (£140 per annum at age 16, rising to a maximum of £435 per annum, with an addition of £15 per annum for an approved qualification) and conditions of service are in accordance with the recommendations of the Professional and Technical Council B of the Whitley Council.

The appointment is subject to the provisions of the National Health Service Superannuation Regulations, and the successful candidate will be required to pass a medical examination. Accommodation is available for single candidate, for which a charge of 38s. per week will be made.

Applications, giving particulars relating to age, experience and qualifications, together with copies of two recent testimonials to be sent to the Physician-Superintendent, Brookwood Hospital, Knaphill, Woking, Surrey, as soon as possible. C 8701

NEWMARKET GENERAL HOSPITAL

Locum Pharmacist

required for relief duty from June to September. Shorter period would be considered. Salary 17 guineas per week.

Applications with full details and names of referees to Group Secretary, Newmarket General Hospital. C 8670

ROYAL BERKSHIRE HOSPITAL, READING

(Category V)

Senior Pharmacist

for Group Pharmaceutical Department. Opportunities for experience in all branches. Full supporting staff. Present salary £525-£625 p.a. (subject to increase on publication of latest Whitley Council award) plus extra for overtime sessions. Apply stating age, qualifications, experience and names of two referees to Group Pharmacist. C 216

SHREWSBURY HOSPITAL GROUP

SHELTON MENTAL HOSPITAL

Chief Pharmacist

Single-handed. Salary £625 to £850. Whitley Council conditions of service subject to the provisions of the National Health Service (Superannuation) Regulations. A house may be available. Applications naming three referees to Medical Superintendent.

J. P. MALLETT,
Group Secretary.
C 8669

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Senior Pharmacist (Male)

Applications are invited for the post of Senior Pharmacist at this Hospital, with special responsibility for the work of the manufacturing laboratory. Appointment will be at the current Whitley Council rate, but the new scale will be applied retrospectively to the date of appointment. Canteen facilities available. Application in writing stating age, qualifications and experience to Chief Pharmacist. C 8703

ST. NICHOLAS HOSPITAL, TEWSON ROAD, PLUMSTEAD, S.E.18

Senior Pharmacist

required at this General Hospital (348 beds) with busy out-patient clinics. The department deals with a wide variety of work. Salary within scale £575-£775 p.a. plus London Weighting. Applications to be sent to Group Secretary, Memorial Hospital, Woolwich, S.E.18.

Locum Pharmacist

required as soon as possible. Salary £15 15s. per week. Apply to Chief Pharmacist, St. Nicholas Hospital (Tel.: Woo 1441). C 8673

ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 Beds)

Pharmacist

required. Salary and conditions of service in accordance with Whitley scale. Accommodation available for single woman at £135 p.a. Applications stating age and experience with names of two referees to Hospital Secretary. C 8668

THE LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

has vacancy for registered pharmacist. Salary £500 rising to £725 plus London Weighting according to previous experience and service. Dining room facilities available. Write Secretary. C 219

THE MILLER GENERAL HOSPITAL, GREENWICH, S.E.10

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in a well-equipped pharmaceutical department at the above hospital. Inspection of the department may be made by arrangement with Chief Pharmacist (Tel.: Tid. 1136). Pharmaceutical Whitley Council salary (£575 x £30 (5) x £25 (2)—£775 p.a. plus L.W.) and conditions. Applications to Secretary, G. & D./H.M.C., St. Alfege's Hospital, S.E.10, as soon as possible. C 8695

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THE CHEMIST AND DRUGGIST
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Appointments—Continued UNIVERSITY COLLEGE HOSPITAL,

IBADAN, NIGERIA

Superintendent Pharmacist

Applications are invited from qualified Nigerian Candidates for the post of Superintendent Pharmacist. Candidates should be Members of the Pharmaceutical Society of Great Britain and should preferably have had Hospital experience.

Salary Scale:—£627 per annum rising by annual alternate increments of £28 and £27 to £875, then £930 by annual increments of £33 to a maximum of £1,029 per annum. Entry point in the scale will depend upon experience. Gratuity:—On satisfactory completion of contract a gratuity is payable at the rate of £25 for each completed 3 months of service. Outfit allowance of £60 is payable.

Duration:—Initial contract will be for two tours of 15/18 months duration. The successful candidate will be required to assume duties by the end of August 1955.

Liberal leave on full salary will be provided. Quarters:—Part-furnished quarters will be provided if required at 10 per cent. of salary. Candidates will be required to pass a medical examination.

Applications should be submitted not later than June 30 on the appropriate forms, which can be obtained, on receipt of an addressed foolscap envelope, from the Adviser on Staff Recruitment, London Office, University College Hospital, Ibadan, 57 Catherine Place, London, S.W.1. C 8699

WANSTEAD HOSPITAL, HERMON HILL, E.11

Locum Pharmacist

required for any three consecutive weeks up to September 30. 16 guineas per week. Applications and copy testimonials to Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 8702

WEST CORNWALL HOSPITAL MANAGEMENT COMMITTEE, TEHIDY CHEST HOSPITAL, CAMBORNE (190 Beds)

Pharmacist

Full-time or part-time Pharmacist required for work at the above hospital. Salary and conditions of service in accordance with the Whitley Council for the Health Services. Applications, together with names for reference should be addressed to the Hospital Secretary, Tehidy Hospital, Camborne. C 8712

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

CHEMIST'S SHOP ASSISTANTS required, fully experienced drugs and toilet counter. High salary, excellent conditions, Apply Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8709

Parke, Davis & Company, Limited. MEDICAL REPRESENTATIVES

Applications are invited from Pharmacists up to 35 years of age who are interested in representing a pharmaceutical house of international repute in the following territories:—

(a) **Sheffield and District.** (b) **South West Scotland.**

Previous experience is unnecessary as training will be given, but candidates should have a good pharmaceutical background and a keen interest in ethical pharmacy.

Initial salary will be based on experience, subsequent adjustment will recognise initiative and ability. Company car supplied. A generous pension and life-assurance plan is in operation.

Write in first instance for an application form to Personnel Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex. C 8686

ASSISTANT PHARMACIST, lady or gentleman, required mainly for dispensing at South London pharmacy. Ten minutes from Charing Cross and London Bridge Stations. Hours 9 a.m. to 6 p.m. Adequate supporting staff. Pleasant working conditions. Long or short engagement. Commencing salary £832 p.a. Apply Box C 212.

BIRMINGHAM (centre). Senior lady, experienced, knowledge buying preferred, general office routine, typing, to take an intelligent interest in the business. Full-time shop hours. Wednesday half-day, congenial post, good salary, holidays arranged. Galloways, Chemists, Victoria Square. C 2640

BOOTS THE CHEMISTS have vacancies in a number of districts for pharmacists, male and female, salary according to age and experience. Engagements on a permanent basis, good prospects, eligibility for pension, life assurance, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, stating age, experience and district preferred. C 8576

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

ILFORD. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary. Progressive salary with monthly bonus and rota duty payments. Modern flat available near branch. Permanency. Apply with full details stating when available for interview to Box C 2632.

LONDON, PADDINGTON, W.9. Superintendent pharmacist. No rota duties. Hours 9 a.m. to 6 p.m. Rent free, self-contained flat (3 bedrooms). Please state salary required in first letter. Apply Box C 2629.

NORTH LONDON. Unqualified assistant required for light dispensing and counter for good-class pharmacy. Salary according to age and experience. Two weeks' holiday this year. Apply stating age and full particulars of previous experience to Box C 8718.

PART-TIME PHARMACIST, 10s. per hour, required N.1, N.16, E.C.1 and Ilford. Some evenings 6-8 and/or Sunday mornings. Dispensing duties. Apply Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8708

POTTERS BAR. A vacancy exists for an experienced pharmacist on a general salary and expense basis. Promotion and progress is assured as is also security of tenure. Accommodation, an attractive flat, can be provided if desired. Application in first instance, stating forth details, to Box C 2610.

ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD., invite inquiries from pharmacists of either sex, who are desirous of obtaining managerial positions in south-east and south-west London, which are permanent and progressive, offering excellent salary and commission, with superannuation benefits. Housing accommodation is available and appointment for interview to discuss terms and inspect Pharmacies and accommodation will be made upon application to the Staff Manager, 71 Powis Street, Woolwich, S.E.18. C 8646

TEDDINGTON. Excellent opportunity for Pharmacist to manage family type business in pleasant riverside district. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details stating when available for interview to Box C 2595.

TWICKENHAM. Excellent opportunity for pharmacist to manage family type business in pleasant riverside district with good living accommodation over. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details stating when available for interview to Box C 2631.

WHEATSTONE. Pharmacist required to manage spacious well-fitted branch with substantial counter trade in pleasant North London suburb. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2596.

LOCUMS WANTED

LOCUM PHARMACISTS REQUIRED for London and suburban areas, long or short periods. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 2635

WHOLESALE

ALLIED LABORATORIES: Invite applications for the position of medical representative to take over their established connection in South Yorkshire. Previous experience in this work is not essential but candidates should possess a good technical background and live on and know the territory well. The position is a progressive and pensionable one carrying salary, commission and expenses. Applications, in strict confidence, stating age and giving brief review of career to date should be addressed to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 8659

ASSISTANT CHIEF CHEMIST required by expanding British subsidiary of an important American Pharmaceutical Group. The post, which is a new one, would be suitable for a recently qualified graduate, who should have completed National Service. A pension scheme is in operation. Write giving personal details and salary required to Box C 2589.

AYRTON, SAUNDERS & CO., LTD., require pharmaceutical chemist for analytical and research work, preferably with some experience. Applicant will be encouraged to work for A.R.I.C. if not already so qualified. Five-day week. Pension scheme. Full details of age, qualifications and experience to Technical Director, 34 Hanover Street, Liverpool, 1. C 8697

BAYER PRODUCTS, LTD., require representative to call on doctors, veterinary surgeons and chemists in the Republic of Ireland, working from Cork. A pharmaceutical qualification or pharmaceutical or medical background is necessary and previous experience as a representative is not essential. Good salary and expenses; excellent prospects for the right man; car provided; superannuation scheme. Applications, which will be treated as confidential, should be made in writing to The Manager, Bayer Products, Ltd., Molesworth House, S. Frederick Street, Dublin. C 8672

BIOREX LABORATORIES, LTD. Pharmacist with a view to works management required in the manufacturing and distribution of galenicals and sterile preparations, a post with great opportunities is offered to a keen and industrious pharmacist. Apply 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8707

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Situations Open—Continued**BOOTS PURE DRUG CO., LTD.**, invite applications from pharmacists for positions in their pharmaceutical factories at Beeston, near Nottingham. The vacancies are in the production departments, development department, and drug warehouses and offer interesting work and good prospects to suitable applicants. The positions are permanent and pensionable after six months' service. Applications should be addressed to Personnel Manager, Station Street, Nottingham. C 8693**COSMETIC FIRM** of world repute has vacancy for a fully qualified chemist with extensive experience in cosmetic chemistry as assistant to the chief chemist. Please state qualifications and salary required. Box C 2624.**DEVELOPMENT PHARMACISTS**

Applications are invited for the position of Development Pharmacist at the Distillers Company (Biochemicals), Ltd., manufacturers of Penicillin, Streptomycin and other Antibiotics. The position will involve control of the existing Pharmaceutical Development Laboratory and the scope of the work includes the formulation of finished products, pharmacological and physiological testing and new product development work. Applicants should have considerable experience in industrial pharmaceutical research work and be 30/45 years of age. Salary according to qualifications and experience. Non-contributory Pension Scheme—three weeks annual holiday—Canteen and Social facilities. Apply with full qualifications and experience to the Personnel Manager, The Distillers Company (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19. C 8675

ENERGETIC WAREHOUSE MANAGER, experienced in chemists' sundries, required by manufacturing company, Home Counties. Salary according to experience. Box C 8698.**FACTORY ASSISTANT** or process worker required immediately by London manufacturing chemists. Applications invited from men from 25-50 years, stating experience and salary required. Five-day week. Box C 218.**JOHNSON & JOHNSON (GL. Britain), LTD.**, require a first-class representative to call on retail and wholesale chemists in the Surrey area. Preference will be given to those with connections in the area. The appointment is permanent and pensionable. A motor-car is provided, and remuneration is by salary and commission, with liberal expenses. Applications, which will be treated in confidence, should give full details of past experience and be addressed to Pharmaceutical Sales Manager, Johnson & Johnson (GL. Britain), Ltd., Slough, Bucks. C 8710**LARGE AND REPUTABLE FIRM** of manufacturing chemists require the services of a qualified man for an important position in their factory. Please reply stating age, experience and salary required to Box C 8696.**MANUFACTURING PHARMACEUTICAL CHEMISTS**

in Yorkshire offer positions in both Research and Manufacturing Departments, owing to expansion, to pharmacologically trained and qualified men aged about 30. Work interesting and varied. Desire and capacity for responsibility and control additionally advantageous. Commencing salary according to age, qualification and experience. Positions are permanent and progressive. Pension schemes. One of these two positions carries superior and exceptional opportunities. Full particulars including age and copy references to Box C 2603.

PHARMACEUTICAL CHEMIST with excellent qualifications and initiative required by well-known ethical manufacturers S.W. London. Duties include product formulation, composition of technical literature, laboratory control, etc. Commencing salary £1,000-£1,500 p.a. according to experience and ability. Full particulars, in confidence, to Box C 8713.**MARKETING MANAGER. GENATOSAN LTD.**, a member of the Fison Group, invite applications for the post of pharmaceutical marketing manager. The man selected will be responsible to the newly appointed commercial manager and his duties will mainly comprise the advertising and promotion of the company's existing and future pharmaceutical products. At least three years' recent practical experience in marketing consumer commodities is an essential qualification. The post is well remunerated and is superannuated. Applications stating age, education, and experience should be addressed in confidence to The Personnel Officer, Genatosan, Ltd., Derby Road, Loughborough. Please quote Ref: M/M. C 8715**MEDICAL REPRESENTATIVE:** Applications are invited for the position of medical representative with a well-known manufacturing house to take over their established connection in the Glasgow area. Previous experience is not essential as every help and encouragement is given. The position is a progressive one. Remuneration is by way of salary, commission and expenses. An attractive pension scheme is also operative. Applications, stating age and a brief review of career to date, should be addressed to Box C 8658.**PARKE, DAVIS & CO., LTD.**, invite applications from pharmacists for a Junior Executive position in their pharmaceutical manufacturing division. The position entails supervision of groups of process workers and offers an opportunity to gain wide experience in modern large-scale production methods. Good promotion prospects; previous manufacturing experience, while an advantage, is not essential. Five-day week. Staff restaurant. Generous pension plan. Write with full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8622**PARKE, DAVIS & CO., LTD.**, require a lady pharmacist to assist departmental manager controlling recording and verification of formulae, D.D.A. records, and other home and overseas Government regulations pertaining to the pharmaceutical industry. This is an interesting and progressive position where previous experience is not essential. The commencing salary will be commensurate with age and qualifications. Five-day week. Generous pension plan. Staff restaurant. Write, giving full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8637**PARKE, DAVIS & CO., LTD.**, invite applications for the position of Assistant Head, Analytical Department. The duties involve all aspects of analytical control of the production of their pharmaceutical and chemical products. Candidates should hold a B.Pharm. degree and A.R.I.C. qualification or equivalent and have some previous industrial laboratory experience. Salary will be commensurate with age, qualifications and experience. Five-day week. Generous pension plan. Staff restaurant. Write giving full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8638**PHARMACEUTICAL CHEMIST.** Senior chemist required to take control of manufacturing processes in new and modern laboratory. The position is permanent, and scope is offered to intelligent and industrious young man. A desirable house on outskirts of town available if required. State qualifications, age, experience, and present salary, also supply any references if available. All applications will be treated confidentially. Apply Cupal, Limited, Manufacturing Chemists, Blackburn. C 2601**PROCESS WORKER**, either sex, required for sterile department, excellent opportunity. Apply Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 5216. C 8706**PROGRESSIVE MANUFACTURING** cosmetic chemists require travellers for their London, Midland and Northern territories. Must have a good connection amongst chemists, ladies' hairdressers and stores. Remuneration by salary, commission and expenses. Apply with fullest details to Box C 2639.**REPRESENTATIVES** calling on chemists in all parts of the country required, for introducing a nationally advertised line. Good commission. Write Box C 8694.**REPRESENTATIVES REQUIRED** to sell well-known make of popular film camera on commission basis. Exclusive territories available. Box C 8700.**REPRESENTATIVE REQUIRED** to sell well-known range of fancy candles. Applicants must have first-class live accounts, experience and own car. Progressive position with good salary, commission, car allowance and expenses. Please write Box C 2630.**REPRESENTATIVE** required for LONDON North of the Thames and MIDDLESEX by manufacturer of toilet preparations. Full-scale National Advertising is under way in magazines such as *Woman*, *Woman's Own*, etc. Remuneration is by salary, expenses, commission or commission only, whichever preferred. Applicants must be car owners and have good connections with chemists, hairdressers, wholesalers, etc. Write in the first instance giving full details to Box C 8716.**REPRESENTATIVES** with good connections chemists, hairdressers, wholesalers, etc., required by a firm of manufacturers marketing toilet preparations. Areas available are:—LANCASHIRE; CHESHIRE; WALES; the WEST OF ENGLAND including GLOUCESTERSHIRE and the HOME COUNTIES. Full-scale national advertising is now under way in *Woman*, *Woman's Own*, etc., and although remuneration is on a commission basis permanent agency is assured for the right men. Write in the first instance giving details of area covered, etc., to Box C 8717.**REQUIRED** by London Manufacturing Chemists. Medical Representative between the ages of 25 and 40, with good pharmaceutical background and knowledge of medical nomenclature, to visit doctors, hospitals, dentists and chemists in Yorkshire, Durham and Northumberland areas for the purpose of propaganda for ethical products. Applicants should state age, experience and salary required to Box C 215.**RIKER**

Owing to territorial reorganisation a vacancy occurs for a representative in the West Midlands. This post provides the opportunity of joining a rapidly expanding Pharmaceutical Company marketing the products of two American Research organisations. Applicants should preferably be qualified pharmacists and no previous experience in medical representation is necessary as full training will be given. A new car will be provided and there is a Company pensions scheme in operation. Apply in writing to the Sales Department, Riker Laboratories, Ltd., Morley Street, Loughborough, marking the envelope "Representative." C 8680

SALES REPRESENTATIVE required for Glasgow and West Scotland. Pharmaceutical qualification essential. Age not exceeding 40. Salary and travelling expenses. Company pension and profit-sharing schemes. Write fully: Ref: HAC/CMH, The British Drug Houses, Ltd., Graham Street, London, N.1. C 220**SALES REPRESENTATIVE** required for Nottingham and the East Midlands. Pharmaceutical qualification essential. Age not exceeding 40. Salary and travelling expenses. Company pension and profit-sharing schemes. Write fully: Ref: HAC/CMH, The British Drug Houses, Ltd., Graham Street, London, N.1. C 217**SURGICAL APPLIANCE FITTER** required with knowledge of surgical instruments. Write in first instance with full details of experience and salary required to Box C 8705.

Situations Open—Continued

THE BAYER BIOLOGICAL INSTITUTE, Exning, nr. Newmarket, requires a University trained bacteriologist to carry out laboratory work in connection with the production of veterinary sera and vaccines. No previous knowledge of veterinary work is necessary but applicants must have had previous practical laboratory experience. Further details supplied on application. C 8671

THE CHAS. H. PHILLIPS CHEMICAL CO., LTD., require representatives for Scotland and the Southampton areas. Progressive positions, salary, full expenses, superannuation. Car provided. Full training will be given but sound retail background essential; aged 30-35 years. Applications in confidence, supplying relevant details to Sales Director, 179 Acton Vale, London, W.3. C 8719

VACANCIES OCCUR in the formulation and development department of the pharmaceutical research and development unit for assistants with suitable pharmaceutical qualifications. A superannuation scheme, and five-day week are in operation. Write giving details of age, qualifications and experience to the Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 8662

WELL-KNOWN COSMETIC COMPANY requires representative for South London territory. Connection with chemists and departmental stores an advantage. Car essential. Salary £600 per annum, plus commission. Car allowance and expenses. Box C 8666.

WORKS CHEMIST, May & Baker, Ltd., Dagenham, Essex, have a vacancy for a Local Chemist for control of chemical plant and processes. Applicants should have a B.Sc. standard of education, and a thorough grounding in organic chemistry. Candidates will be considered from students completing their course this summer. Salary according to qualifications and experience. Contributory pension scheme. Five-day week. Apply initially in writing, quoting reference No. 112, to the Personnel Officer. C 8661

WHOLESALE (OVERSEAS)

A LEADING PHARMACEUTICAL HOUSE invites applications from suitably qualified persons to fill an important vacancy on the sales force of their Branch Office in Nairobi. The position will appeal to young, single men with sound retail or hospital background. Representative experience in the ethical field will carry some measure of preference. Duties will consist of the promotion of the company's products to the medical profession, hospitals, and trade, and will entail short tours within the territories. Full training will be given. Contributory pension scheme. Apply initially in writing giving full details of experience, to Box C 8641.

PHARMACISTS REQUIRED by English company for service in British West Africa. Progressive salary. Free furnished accommodation. Free medical services. Contributory pension fund with generous pension at age 55. Tours of about eighteen months with leave on full pay. Initial kit allowance. First-class passages by air or steamer provided. Low income tax rates. Reply giving full particulars to Box C 2622.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

RETAIL (HOME)

PHARMACIST, 36, seeks change. South-east London or suburbs with accommodation preferred but all letters answered. No Co-ops. Please state salary and prospects offered, Box C 2636.

WHOLESALE**'Ethical' Representative**

A progressive position with a front-rank firm is wanted by an 'Ethical' Representative offering a first-class background of experience, built up since 1936 (excluding war years) among General Practitioners, Hospitals and Consultants. Present firm changing to policy of direct mail and consumer advertising. Age 44. Box C 8720.

UNQUALIFIED ASSISTANT (30), sound pharmaceutical background, seeks position as representative with reputable company, wholesalers or manufacturing (North-east area). Apply Box C 2621.

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

AGENTS, with live connections among wholesale and retail chemists, required in all territories by firm of manufacturers to introduce nationally advertised baby products. Apply Box C 2602.

AGENT REQUIRED by progressive perfumery and cosmetic house for South Wales. Products carry substantial national advertising and sell through wholesale and retail outlets. Good connection already exists and all accounts will be handed over. Write Box 6362, Frost-Smith Advg., 64 Finsbury Pavement, E.C.2. C 8692

CHEMISTS AND ALLIED TRADE AGENTS

or Manufacturer with Sales Force covering Great Britain required to sell and distribute a laxative. Turnover approx. £23,000 per year, increasing turnover and publicity each year. Next twelve months turnover £28,000. Send full particulars, terms, etc., to Box C 2611.

WELL-ESTABLISHED London manufacturing chemists require agent for South Wales and West of England to take over existing connection. 10% per cent. commission. Reply: Sales Manager, Box C 2637.

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

IMPORTANT PHARMACEUTICAL organisation in Italy seeks exclusive concession for propaganda and sale of chemico-biological pharmaceuticals. Box C 2619.

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word.
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